

# PUBLIC HEALTH REPORTS

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## MAINTENANCE OF HEALTH IN INDUSTRIES.

### ITS RELATION TO THE ADEQUATE PRODUCTION OF WAR MATERIALS

By J. W. SCHERESCHEWSKY, Surgeon, United States Public Health Service.

How to safeguard the health of the three and one-half to four million workers in industries producing war materials, such as the metal trades generally and the mining, rubber, shipbuilding, chemical, leather, and motor vehicle industries,<sup>1</sup> is of deep interest at this moment, because in a crisis of this nature the tendency is to speed up industry at the sacrifice of the workers' health. War materials must be produced in unprecedented quantities; continuous maximum production must be maintained. Under such pressing conditions the abiding program of health protection may easily be neglected, and the additional measures necessitated by the influx of a large number of temporary workers may not be taken.

The convincing illustration of this danger is the situation arising in England after the outbreak of the war. The factory laws of England contain many wise provisions for the safeguarding of industries. There is a comprehensive system of workmen's compensation and a sickness insurance law. Women and children are an especially pro-

<sup>1</sup> Industries coming under the English Munitions of War Act are the following:

(a) The manufacture or repair of arms, ammunition, ships, vessels, vehicles, and aircraft, and any other articles or parts of articles (whether of a similar nature to the aforesaid or not) intended or adapted for use in war, and of any other ships or vessels, or classes of ships or vessels, or parts of ships or vessels, which may be certified by the Board of Trade to be necessary for the successful prosecution of the war; and of any metals, machines, or tools required for any such manufacture or repair, and of the materials of any class specified in an order for the purpose by the Minister of Munitions, required for or for use in any such manufacture or repair as aforesaid.

(b) The construction, alteration, or repair of works of construction and buildings for naval or military purposes, and of buildings in which munitions work is or is intended to be carried on, and the erection of machinery and plant therein, and the erection of houses for the accommodation of persons engaged or about to be engaged on munitions work.

(c) The construction, alteration, repair, or maintenance of docks and harbors, and work in estuaries in cases where such construction, alteration, repair, maintenance, or work is certified by the Admiralty to be necessary for the successful prosecution of the war.

(d) The supply of light, heat, water, or power, or the supply of tramways facilities in cases where the Minister of Munitions certifies that such supply is of importance for the purpose of carrying on munitions work, and the erection of buildings, machinery, and plant required for such supply.

(e) The repair of fire engines and any other fire-brigade appliances in cases where the Minister of Munitions certifies that such repair is necessary in the national interest.

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tected class of industrial workers. Nevertheless, when war began, industry in general was speeded up to the breaking point in the desire to produce a maximum output. At many establishments work was continuous seven days in the week. Long periods of overtime were required. Sanitary precautions ordinarily enforced were disregarded. These conditions, aggravated by the enlistment of skilled industrial workers, very quickly resulted in a decline in output, instead of an increase. This led to the general control of the munitions industry by the Munitions of War Act of July, 1915, and the appointment of the Health of Munitions Workers Committee. It became evident in England, as it must be here, that the health of workers should be guarded, not only for the conservation of every resource in this war of resources, but also for the purpose of maintaining in the factories the highest level of production over a protracted period of time.

It is entirely practicable to keep the health of the workers at an efficient point, and thus avoid the difficulty in which England found herself, by steps looking toward (1) the prevention of occupational diseases and poisonings, (2) the sanitation of work places, (3) the prevention of undue fatigue, (4) the medical supervision of workers, and (5) the sanitation of industrial communities. It is the intention to consider in subsequent articles each of these topics in detail. Brief reference, however, will be made to some of their important features.

*Sanitation of work places.*—Leaving the factor of occupational diseases and poisonings to a later paper, it may be said that for the sanitating of work places definite standards must be established and maintained in regard to hygienic construction, ventilation, illumination, water supply, washing and eating facilities, and disposal of sewage and waste.

The usual standards for factory illumination have in the past been too low, and sufficient attention has not been paid to other factors entering into the promotion of visual ease and comfort, such as avoidance of glare and correct light distribution. Under the present circumstances, however, with the pressing need of raising the output of the individual worker to the maximum, the great frequency of night work, and the probable influx of large numbers of temporary workers, every attention must be paid to provisions for adequate and correct illumination of premises and workrooms. A natural outgrowth of the provisions for proper illumination will be the protection of workers from eye strain by visual examinations of those engaged in fine operations and provision of glasses for workers whose vision needs correcting. The importance of adequate illumination may be seen from the facts that many more industrial accidents

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take place during the winter than during the summer and that in a large percentage of accidents defective illumination of the work place is a decided factor in the causation.

That an abundant supply of fresh air is a necessity for workers is of course conceded by all; but in order to prevent listlessness and inability to concentrate the attention, and generally to maintain production at a high level, the physiological stimulus of the air supply must also be considered. This means that not only must the temperature and relative humidity of the air in work places be subject to control and supervision, but the factor of air movement must also be taken into account. Ventilation provisions are particularly important in industries making war materials because the workers are often exposed to highly poisonous dusts and volatile compounds, of which good examples are trinitrotoluol, in the explosives industry, and tetrachlorethane, which has been extensively used as a solvent in aeroplane varnish.

Adequate washing facilities and lunch rooms are highly desirable adjuncts to any industrial establishment and are indispensable whenever the industrial processes concerned involve the handling of poisonous substances. Under war conditions increasing numbers of workers will be exposed to such poisons. Special attention will be required in the case of washing facilities and shower baths, first, as a preventive measure to guard against these poisons, and second, in the case of operations characterized by severe physical labor, exposure to intense heat, or soiling of the body, as a means of promoting personal hygiene and furnishing at the close of the day's work a refreshing physiological stimulus, which promotes the rapid elimination of fatigue products. So far as eating facilities are concerned, the provision for separate lunch rooms will be a necessity in all industries and operations in which the workers come into contact with poisonous materials. This provision is of almost equal importance in other industries where the workers are engaged at high pressure, for the opportunity to obtain good food on the premises, eaten in surroundings other than those of the dust and turmoil of the shop, will enable the meal time to furnish its maximum of comfort and relaxation, thus helping materially in keeping accumulation of fatigue down to a minimum.

*Prevention of undue fatigue.*—A prerequisite of maximum continuous production is that the worker return to his work completely recuperated from the previous day's fatigue. Probably the most important memorandum contributed by the British committee on the health of munitions workers to the literature of industrial hygiene refers to the relation of hours of labor to bodily fatigue. From these

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memoranda and other provisions which have been made, it is evident that we can not make a blanket rule which in emergencies will apply to all industries alike. The health of munitions workers committee is of the opinion that, in the case of men, for heavy labor the maximum weekly hours of labor can not exceed 56 without causing fatigue accumulation; for moderately heavy labor, 60; and for light labor, such as tending semiautomatic machines, probably 64. It is also found that women have not the capacity to stand long hours of work so well as men. The British experience also warns us that at least one day's rest in seven is a necessity.

*Medical supervision.*—A comprehensive system for the medical supervision of workers is necessary in order to attain the following objects:

(1) Physical examinations as to fitness, so as (a) to assign the worker to such work as he is physically fitted to perform to the best advantage, without injury to himself; (b) to detect defects and diseases in their incipency, so that they may be removed by appropriate treatment; (c) to guard the personnel from the introduction of communicable diseases.

(2) The provision of adequate medical and surgical relief, so that (a) trifling illnesses may be treated in the works' dispensary and serious loss of time avoided; (b) an early diagnosis may be made in the event of serious illness; (c) arrangements for appropriate treatment may be made.

(3) The detection of the early onset of industrial poisoning and occupational diseases by means of periodical inspections and reexaminations in processes which expose workers to these dangers.

(4) The maintenance of watch and control over the sanitary conditions in industrial plants, so that (a) workers are always assured of proper sanitary surroundings, (b) protective measures against occupational diseases and industrial poisonings are always maintained.

*Sanitation of industrial communities.*—Inasmuch as the worker is exposed not only to the environment of the work place, but also to that of the community in which he lives, it is evident that it would be of little use to maintain ideal factory conditions if at the same time the worker were endangered during his leisure hours by defective community sanitation and all the elements for ill health which this implies—such as overcrowding, unsafe water supply, and insanitary surface privies. It is evident, therefore, that if we are to provide for a maximum state of health and efficiency on the part of the workers to meet the present emergency, adequate sanitary conditions in industrial communities must be properly maintained.

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*Cooperation needed.*—To make the above-outlined program efficient in maintaining the health of workers, cooperation is imperative on the part of the public, the owners of factories, the workers, and the various governmental authorities, and all of these have their part to play in thus increasing the output of war materials.

## EPIDEMIC CEREBROSPINAL MENINGITIS.

### CURRENT PREVALENCE IN CITIES OF THE UNITED STATES.

The table which follows shows the number of cases of epidemic cerebrospinal meningitis notified in cities of the United States having over 10,000 population, as reported to the United States Public Health Service, since April 22, 1917. This table is a continuation of the table which appeared in the PUBLIC HEALTH REPORTS May 4, 1917, page 640.

City.	Cases reported for week ended—				
	Apr. 28.	May 5.	May 12.	May 19.	May 26.
Akron, Ohio <sup>1</sup> .....					
Albany, N. Y.....				1	
Atlantic City, N. J.....		2			
Baltimore, Md.....	5	9	5	10	8
Binghamton, N. Y.....	1				
Birmingham, Ala.....				1	1
Boston, Mass.....	1	1	2	3	
Bridgeport, Conn.....	1	1			
Buffalo, N. Y.....	2	3	2		
Canton, Ohio.....		1			2
Chicago, Ill.....	6	8	12	8	13
Cincinnati, Ohio.....		1	1	5	
Cleveland, Ohio.....	5	8	7	4	6
Columbus, Ohio.....		1		1	
Cumberland, Md.....		1			
Dayton, Ohio.....	1				1
Detroit, Mich.....	1	4	5	6	4
Dubuque, Iowa.....	1	1			
Duluth, Minn.....			2		
Elizabeth, N. J.....		1	1	1	1
Erie, Pa.....			2		
Galveston, Tex.....					
Hartford, Conn.....	12	7	9	6	
Indianapolis, Ind.....			1		1
Jersey City, N. J.....	5				
Kansas City, Kans.....	1		1	5	2
Kansas City, Mo.....	5		3	4	3
Kenosha, Wis.....				1	
Lima, Ohio.....				1	
Lancaster, Pa.....					1
Los Angeles, Cal.....		1		1	
Lowell, Mass.....	1	1		1	2
Medford, Mass.....	1				
Memphis, Tenn.....		1			
Milwaukee, Wis.....	1	3	1		2
Minneapolis, Minn.....	13	10	8	13	
Nashville, Tenn.....					1
Newark, N. J.....	2	4		1	
New Britain, Conn.....					3
Newburyport, Mass.....	1				
New Castle, Pa.....			2	1	
New York, N. Y.....	16	8	15	23	10
Niagara Falls, N. Y.....		1			1
North Adams, Mass.....			1		

<sup>1</sup> 55 cases were reported in Akron during the month of April.

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City.	Cases reported for week ended—				
	Apr. 28.	May 5.	May 12.	May 19.	May 26.
Oklahoma City, Okla.	1			1	
Omaha, Nebr.	1	2			
Orange, N. J.			1		2
Philadelphia, Pa.	32	26	28	18	27
Pittsburgh, Pa.	9	7	4	5	
Pittsfield, Mass.	1			1	3
Pontiac, Mich.	1				
Portland, Oreg.	1			1	
Providence, R. I.	2		1	1	1
Racine, Wis.	1				
Reading, Pa.	2				
St. Joseph, Mo.		2		1	
St. Louis, Mo.	8	12	8	8	7
Salt Lake City, Utah				1	
San Francisco, Cal.	1	1			
Schenectady, N. Y.			1		
Sioux City, Iowa	1		1	1	
Somerville, Mass.	1				
South Bend, Ind.			1		1
Steubenville, Ohio	1	2			1
Waltham, Mass.					1
Washington, D. C.				2	
Wheeling, W. Va.		1			
Wilkinsburg, Pa.		2	1		1
Wilmington, Del.			1		

### POLIOMYELITIS (INFANTILE PARALYSIS).

#### RECORDED PREVALENCE BY STATES, 1916.

The table which follows shows the recorded prevalence of poliomyelitis in the several States during the calendar year 1916.

State.	Cases reported.	Deaths registered.	Indicated case rate per 1,000 inhabitants.	Indicated fatality rate per 100 cases.	Estimated population July 1, 1916.
Alabama	186	51	0.080	27.42	2,332,608
Arizona	6		.023		255,544
California	132	26	.045	19.70	2,938,654
Colorado	16		.017		962,060
Connecticut	951	235	.764	24.71	1,244,479
District of Columbia	39	6	.107	15.38	363,980
Indiana	207	50	.073	24.15	2,816,817
Iowa	259	51	.117	19.69	2,220,321
Kansas	103	26	.056	25.24	1,829,545
Kentucky	146	48	.061	32.88	2,379,639
Louisiana	77	18	.042	23.38	1,829,130
Maine	149		.193		772,489
Maryland	352	111	.258	31.53	1,362,807
Massachusetts	1,026	424	.518	22.01	3,719,156
Michigan	616	138	.202	22.40	3,054,854
Minnesota	909	105	.399	11.55	2,279,603
Mississippi	269	31	.138	11.52	1,951,674
Montana	94	26	.205	27.66	459,494
New Jersey	4,055	1,180	1.376	29.10	2,948,017
New York	13,223	3,351	1.287	25.19	10,273,375
Ohio	546		.106		5,150,356
Oregon	38	4	.045	10.53	838,471
Pennsylvania	2,181		.256		8,522,017
South Carolina	123	36	.076	29.27	1,625,475
Texas	86	35	.019	40.70	4,429,666
Vermont	64	12	.176	18.75	363,699
Virginia	330	59	.151	17.88	2,192,019
Washington	30	7	.020	23.33	1,534,221
West Virginia	82		.059		1,386,038
Wisconsin	475	79	.190	16.63	2,500,350
Wyoming	7	3	.039	42.86	179,559

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## IMMUNIZATION AGAINST TYPHUS FEVER.

### A REPORT OF AN UNSUCCESSFUL ATTEMPT TO IMMUNIZE MONKEYS AGAINST TYPHUS INFECTION BY CULTURES OF *B. TYPHI EXANTHEMATICI* (PLOTZ)

By G. W. McCoy, Director Hygienic Laboratory, and M. H. NEILL, Passed Assistant Surgeon, United States Public Health Service.

The following experiments were undertaken for the purpose of determining whether it is possible to immunize monkeys against typhus fever by means of a vaccine made from the *B. typhi exanthematici* (Plotz). While the results of the work throw light upon this point, any bearing they may have on the etiological relation of the organism to the disease is considered to be aside from the present discussion.

In the experiments to be reported, rhesus monkeys were injected subcutaneously at spaced intervals with living and dead cultures of *B. typhi exanthematici* (Plotz). After an interval of 12 days or more these animals and appropriate control monkeys received virulent typhus blood intraperitoneally.

The rectal temperatures of the monkeys receiving the vaccine were taken twice daily from the time of giving the first dose; that of the control monkeys from the time of receiving the test inoculation of virulent typhus blood. A rise of temperature occurring after an incubation period of about 10 days and lasting about 10 days was regarded as evidence of infection. We recognize that the indications of typhus infection in monkeys are not very striking, but controlled as the experiments were, by the inoculation of normal (nonvaccinated) monkeys and of immune monkeys, i. e., monkeys that had previously reacted to typhus, the results are regarded as trustworthy.

#### Procedure.

The cultures of *B. typhi exanthematici* (Plotz) were grown in glucose-broth fermentation tubes which had been heated and cooled just prior to inoculation. In this manner a good growth of the organism was obtained in the closed arm of the tube. Four days after inoculation an estimate of the number of organisms in the tubes was made and a dilution of the culture equivalent to 1,000,000,000 organisms was injected subcutaneously into each of six test monkeys. The vaccine represented four strains of the organism. In half of the tests the bacilli had been killed by heating to 60° C. for one hour before use; in the remainder live organisms were injected.

The virus of the virulent typhus blood used was that of Mexican typhus. The history of the strains used was as follows: The first was obtained on February 20, 1917, from a man 23 years of age, said to have been ill 11 days, who, for two days, presented an exanthem characteristic of typhus fever. The second strain was obtained on

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March 13, 1917, from a man 22 years of age, in the fifth day of the fever, and in the third day of the exanthem. In both instances the patients were bled from the arm and the blood was diluted with an equal volume of physiological salt solution; about 6 cubic centimeters of the mixture were then injected into each of several guinea pigs. These were shipped to the Hygienic Laboratory and when the characteristic reaction to the typhus virus was observed the animals were bled from the heart, and other guinea pigs and monkeys were intraperitoneally inoculated with the blood. Thus two strains of the virus were available for experimental purposes.

The monkeys were injected with the vaccine on the first, eighth, and fifteenth day of the experiments. Not less than 12 days after the last of these injections of bacilli, the monkeys received from 3 to 4 cubic centimeters of virulent typhus blood intraperitoneally. At the same time for each vaccinated monkey one fresh monkey and one monkey which had previously reacted characteristically to the virus of typhus fever and was therefore considered to be immune, were inoculated in the same way with the same amount of the same sample of virulent typhus blood.

By consulting the protocols and charts it will be seen that in five of the six vaccinated monkeys the rise of temperature which is interpreted as evidence of typhus infection came somewhat later than in the nonvaccinated control monkeys. We are not prepared to express an opinion as to whether this is to be regarded as of significance.

With reference to the fresh monkeys, six in number, which were inoculated with typhus blood, it is to be noted that two of these animals failed to react satisfactorily to a single injection of the typhus blood. That this is not an uncommon occurrence is indicated by the experience of Anderson and Goldberger,<sup>1</sup> who noted that 22.5 per cent of the rhesus monkeys injected with typhus-fever blood failed to exhibit the characteristic febrile reaction, although some of them reacted to subsequent injections.

We consider it permissible to suggest that, as two of the six normal controls failed to react to the test inoculation of typhus blood, the dose given is not to be regarded as an overwhelming one.

#### Summary.

Neither the living nor the dead cultures of *B. typhi exanthematici* (Plotz) caused any observable disturbance of the temperature of the monkeys.

All the monkeys which had received *B. typhi exanthematici* (Plotz) exhibited temperature curves characteristic of the reaction to typhus fever in the monkey when given a test dose of typhus virus.

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Hygienic Laboratory Bull. No. 86, p. 131.

Four of the fresh control monkeys showed typical reactions, while in one of the fresh animals the reaction was frankly negative and in one it was indefinite.

None of the typhus-immune animals, six in number, showed temperature reactions.

#### Conclusion.

Evidence has been presented that a bacterial vaccine prepared from *B. typhi exanthematici* (Plotz) failed to protect monkeys against typhus infection (Mexican).

#### Acknowledgment.

The strains of typhus virus used to produce the characteristic reaction for monkeys in the animals included in the experiments were obtained by Surg. Edward Francis, of the United States Public Health Service at Laredo, Tex., through the cooperation of Dr. E. Hernandez, of the Mexican Health Service, to both of whom we express our thanks.

#### PROTOCOLS.

The details of the experiment are set forth in the following protocols.

##### Experiment No. 1. (See Chart.)

On April 16, 1917, monkey No. X5, nine days after inoculation, exhibited a characteristic temperature reaction to typhus virus No. 2, which had been passed through one guinea pig and one monkey since the virus was obtained. It was accordingly bled from the heart, the blood being mixed with a little 5 per cent sodium citrate solution, and  $3\frac{1}{2}$  cubic centimeters of the blood were then injected intraperitoneally in each of the following animals:

A. Monkey No. T202. This animal had received subcutaneously 1,000,000,000 living *B. typhi exanthematici* (Plotz) on March 21, March 28, and April 4, 1917.

B. Monkey No. C1. A fresh monkey.

C. Monkey No. 1. A typhus-immune monkey which had reacted to virus No. 1 from March 20 to March 29, 1917.

#### RESULTS.

Monkey No. T202 developed a definite febrile reaction seven days after inoculation.

Monkey No. C1 developed an indefinite febrile reaction nine days after inoculation.

Monkey No. 1 developed no febrile reaction.

##### Experiment No. 2. (See Chart.)

On April 17, 1917, monkey No. X4, 10 days after inoculation, exhibited a characteristic reaction to typhus virus No. 2 which had been passed through one guinea pig and one monkey since the strain was obtained. It was accordingly bled from the heart, the blood being mixed with a little 5 per cent sodium citrate solution, and 3 cubic centimeters of the blood were then injected intraperitoneally into each of the following animals:

A. Monkey No. T204. This animal had received subcutaneously 1,000,000,000 living *B. typhi exanthematici* (Plotz) on March 21, March 28 and April 4, 1917.

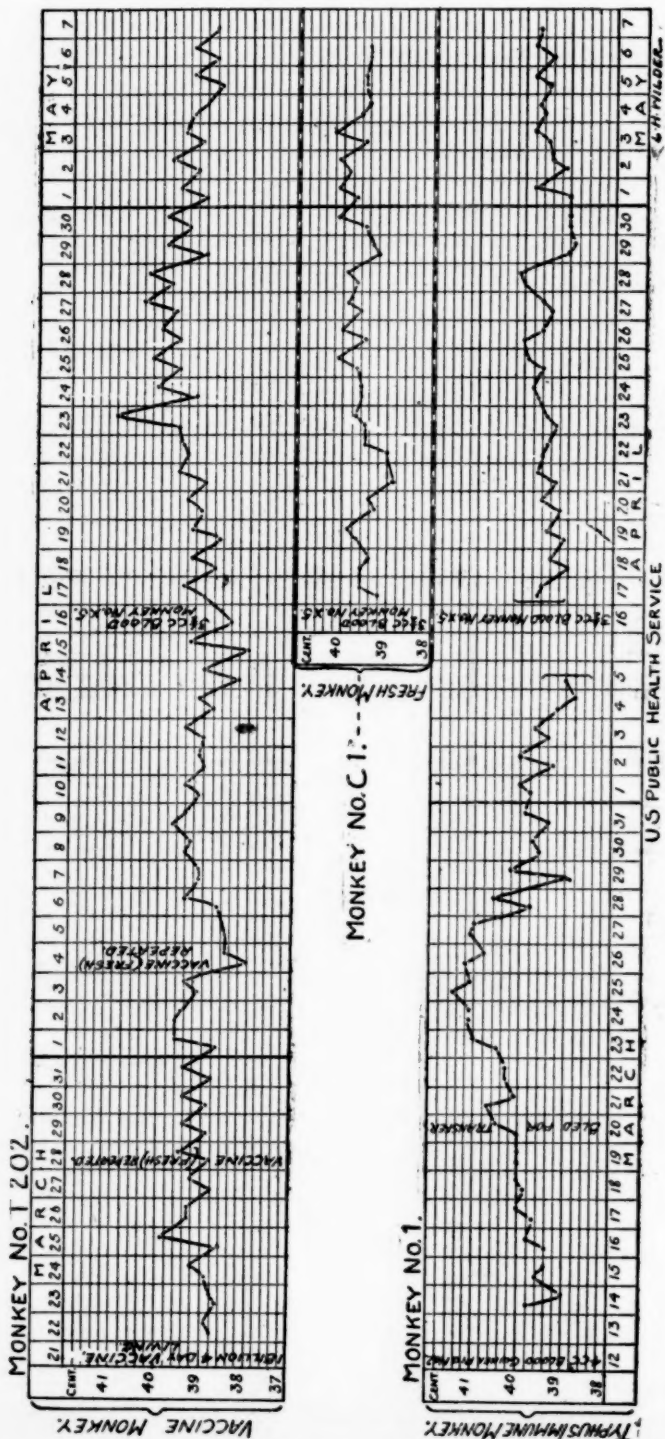
B. Monkey No. T207. This animal had received subcutaneously 1,000,000,000 dead *B. typhi exanthematici* (Plotz) on March 21, March 28, and April 4, 1917.

C. Monkey No. C2X, a fresh monkey.

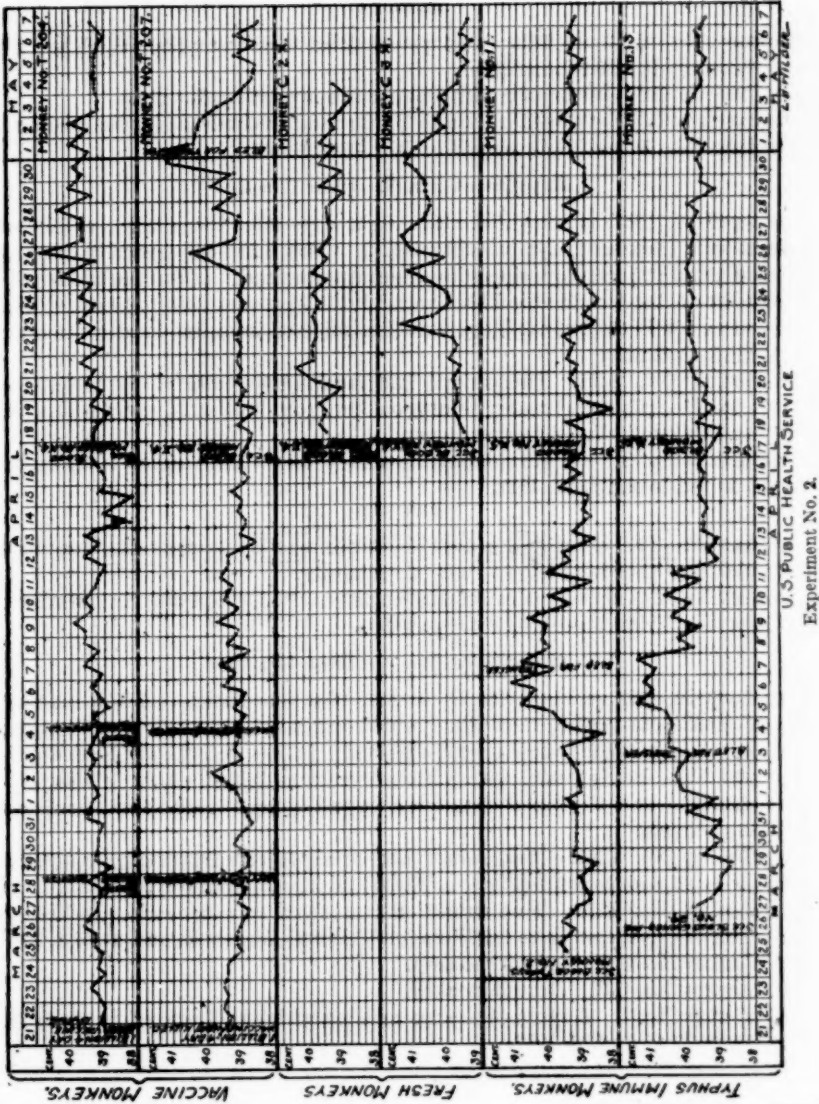
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D. Monkey No. C3X, a fresh monkey.

E. Monkey No. 11, a typhus-immune monkey, which had reacted to virus No. 1 from April 5 to April 11, 1917.

F. Monkey No. 13, a typhus-immune monkey, which had reacted to virus No. 1 from April 1 to April 11, 1917.

#### RESULTS.

Monkeys Nos. T204 and T207 developed definite febrile reactions eight and nine days, respectively, after inoculation.

Monkey No. C2X developed no febrile reaction suggestive of typhus.

Monkey No. C3X developed a definite febrile reaction six days after inoculation.

Monkeys Nos. 11 and 13 developed no febrile reactions.

#### Experiment No. 3. (See Chart.)

On April 27, 1917, monkey No. C3X, eight days after inoculation, exhibited a characteristic reaction to typhus virus No. 2, which had been passed through one guinea pig and two monkeys since the strain was obtained. It was accordingly bled from the heart, the blood being mixed with a little 5 per cent sodium citrate solution, and 4 cubic centimeters of the blood were then injected intraperitoneally into each of the following animals:

A. Monkey No. T208. This animal had received subcutaneously 1,000,000,000 heat-killed *B. typhi exanthematici* (Plotz) on March 21, March 28, and April 4, 1917.

B. Monkey No. C9X. A fresh monkey.

C. Monkey No. 2. A typhus-immune monkey which had reacted to virus No. 1 from March 22 to March 27, 1917.

#### RESULTS.

Monkey No. T208 developed a definite febrile reaction 14 days after inoculation and expelled a macerated fetus 4 days subsequently.

Monkey No. C9X developed a definite febrile reaction 9 days after inoculation.

Monkey No. 2 developed no febrile reaction.

#### Experiment No. 4. (See Chart.)

On April 29, 1917, monkey No. 22, 10 days after inoculation, exhibited a characteristic reaction to typhus virus No. 1 which had been passed through four guinea pigs and three monkeys since it was obtained. It was accordingly bled from the heart, the blood being mixed with a little 5 per cent sodium citrate solution, and 4 cubic centimeters of the blood were then injected intraperitoneally into each of the following animals:

A. Monkey No. T201. This animal had received subcutaneously 1,000,000,000 living *B. typhi exanthematici* (Plotz) on March 21, March 28, and April 4, 1917.

B. Monkey No. T215. This animal had received subcutaneously 1,000,000,000 heat-killed *B. typhi exanthematici* (Plotz) on March 21, March 28, and April 4, 1917.

C. Monkey No. C10. A fresh monkey.

D. Monkey No. C11. A fresh monkey.

E. Monkey No. 7. A typhus-immune monkey which had reacted to virus No. 1 from March 27 to April 6, 1917.

F. Monkey No. X4. A typhus-immune monkey which had reacted to virus No. 2 from April 16 to 23, 1917.

#### RESULTS.

Monkeys Nos. T201 and T215 both developed definite febrile reactions 11 days after inoculation.

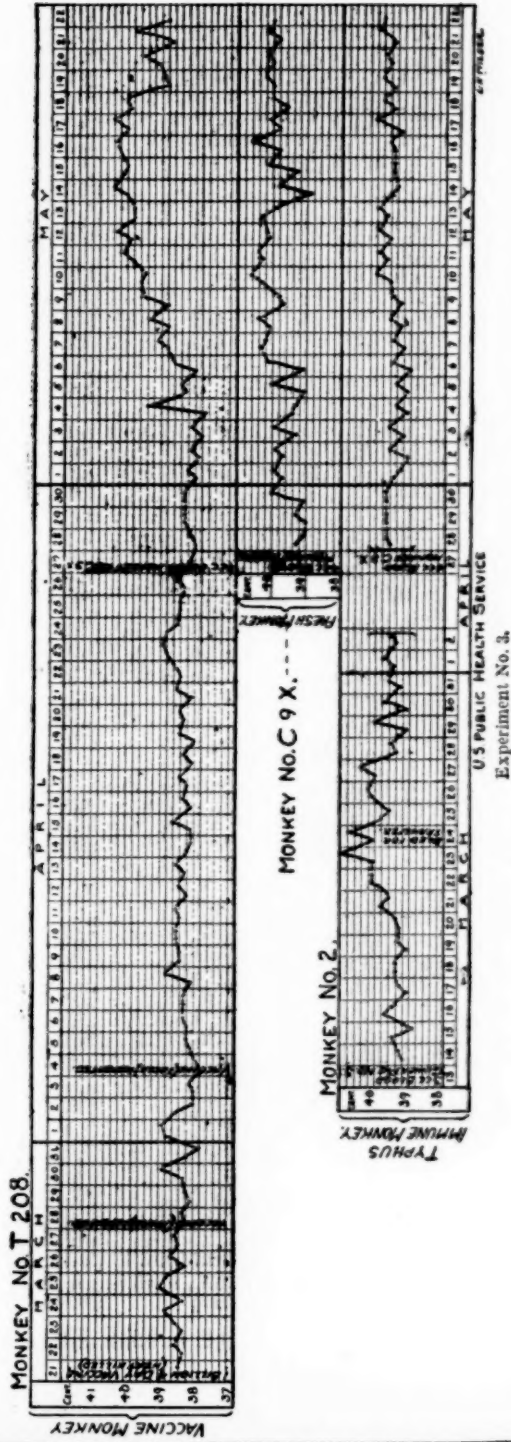
Monkeys Nos. C10 and C11 both developed definite febrile reactions 9 days after inoculation.

Monkeys Nos. 7 and X4 developed no febrile reactions.

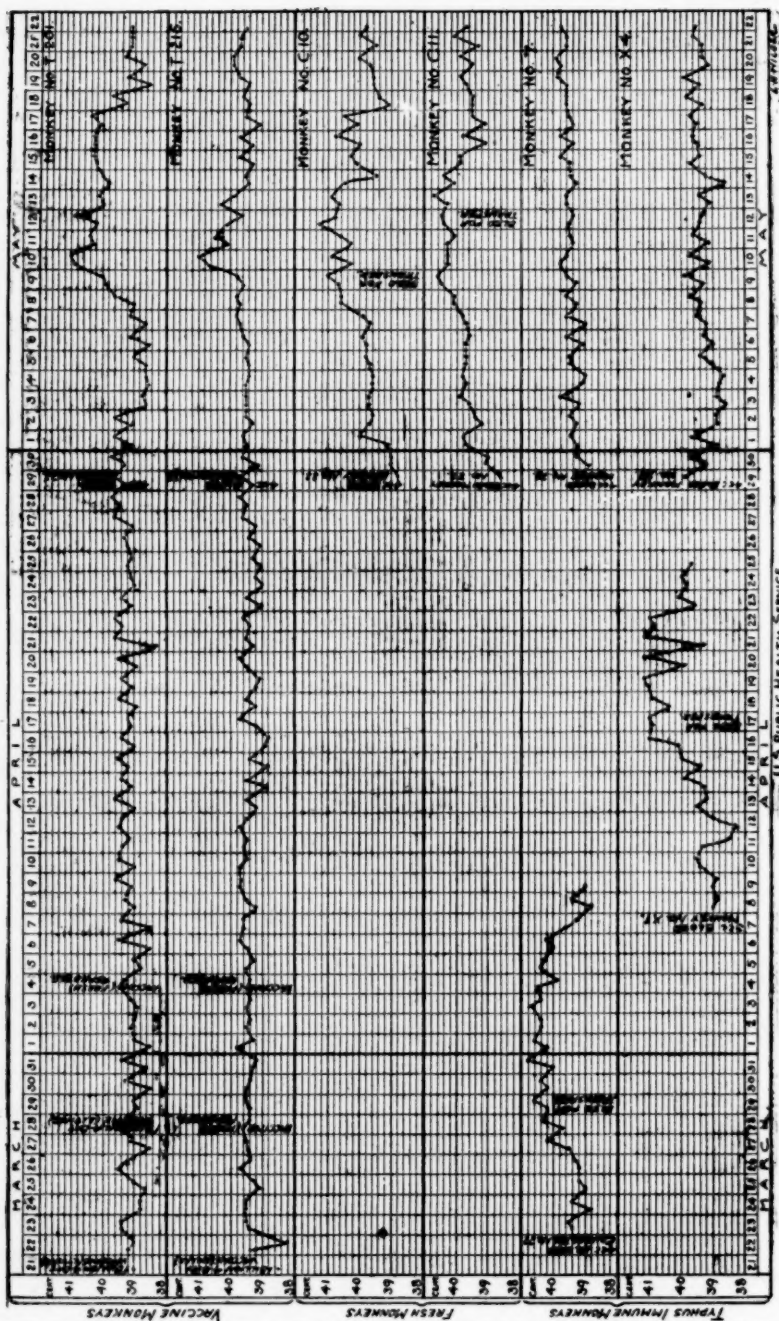
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**June 1, 1917**



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U.S. PUBLIC HEALTH SERVICE,  
Experiment No. 4.

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## PREVALENCE OF DISEASE.

*No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring.*

### UNITED STATES.

#### RECIPROCAL NOTIFICATION.

##### Minnesota.

*Cases of communicable diseases referred during April, 1917, to other State health departments by department of health of the State of Minnesota.*

Disease and locality of notification.	Referred to health authority of—	Why referred.
Smallpox: Minneapolis Health Department, Hennepin County.	Kansas City, Wyandotte County, Kans. Havre, Hill County, Mont. Wishek, Grant County, N. Dak., superintendent Soo Line. Deadwood, Lawrence County, S. Dak., Rapid City, Pennington County, S. Dak., Bellefourche, Butte County, S. Dak.	Arrived Minneapolis from Kansas City, with smallpox of weeks duration. Patient broke out with smallpox 4 days after leaving Montana. Patient arrived at Minneapolis from Wishek, N. Dak., via Soo Line, broken out with smallpox. Traveling salesman broken out with smallpox on arrival in Minneapolis from South Dakota.
Tuberculosis: Mayo Clinic, Rochester, Olmsted County.	Auburn, Sangamon County, Ill.; Kewanee, Henry County, Ill.; Marshalltown, Marshall County, Iowa; Schaller, Sac County, Iowa; Dows, Wright County, Iowa; Crawfordville, Montgomery County, Ind.; Reedpoint, Stillwater County, Mont.; Grand Forks, Grand Forks County, N. Dak.; Alcester, R. F. D. No. 2, Union County, S. Dak.; Portage, Columbia County, Wis.; Edmonton, Alberta, Canada; Ponteix, Saskatchewan, Canada.	5 advanced, 6 moderately advanced, 1 quiescent, cases left Mayo Clinic for homes.
Thomas Hospital, Minneapolis, Hennepin County.	Irwin, Shelby County, Iowa; Milnor, Sargent County, N. Dak.; Rhineland, Oneida County, Wis.	1 far advanced and 2 fatal cases removed to homes from Thomas Hospital.
Typhoid fever: St. Hilaire, Pennington County.	Emerado, Grand Forks County, N. Dak.	Suspected typhoid fever case removed from Minnesota to home in North Dakota.

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## CEREBROSPINAL MENINGITIS.

## Kansas.

Collaborating Epidemiologist Crumbine reported that cases of cerebrospinal meningitis have occurred in Kansas since May 1, 1917, as follows: Fort Leavenworth 1, Wichita 1, Conway Springs (R. F. D.) 1, Wakeeney 1, Kansas City 6.

## Ohio—Akron.

The city health officer of Akron, Ohio, reported that during the period from April 1 to 28, 1917, 55 cases of cerebrospinal meningitis were notified in the city of Akron.

## State Reports for April, 1917.

Place.	New cases reported.	Place.	New cases reported.
Indiana:		Louisiana:	
Blackford County.....	1	Acadia Parish.....	1
Floyd County.....	1	Calcasieu Parish.....	1
Fulton County.....	1	Orleans Parish.....	1
Hamilton County.....	2	Total.....	3
Lawrence County.....	1		
Marion County.....	4	Minnesota:	
Miami County.....	1	Dakota County—	
Scott County.....	1	South St. Paul.....	1
Vanderburgh County.....	1	Hennepin County—	
Washington County.....	1	Minneapolis.....	55
Total.....	14	Minnetonka Township.....	1
		Richfield.....	1
Iowa:		West Minneapolis.....	1
Hardin County.....	1	Kittson County—	
Marion County.....	1	Kennedy.....	1
Pottawattamie County.....	2	Martin County—	
Webster County.....	1	Welcome.....	1
Total.....	5	Morrison County—	
		Granite Township.....	1
Kansas:		Murray County—	
Butler County—		Murray Township.....	1
Augusta.....	1	Ottertail County—	
Eldorado.....	1	Everts Township.....	1
Doniphan County—		Pine County—	
Leona (R. F. D.).....	1	Pine City.....	1
Franklin County—		Ramsey County—	
Ottawa.....	3	St. Paul.....	16
Gove County—		Rice County—	
Quinter (R. F. D.).....	2	Faribault.....	1
Greenwood County—		St. Louis County—	
Eureka.....	1	Buhl.....	1
Lincoln County—		Duluth.....	2
Lincoln.....	1	Ely.....	1
Lyon County—		Virginia.....	2
Emporia.....	1	Stearns County—	
Reno County—		St. Cloud.....	2
Castleton (R. F. D.).....	1	Lyndon Township.....	1
Riley County—		Traverse County—	
Manhattan.....	1	Browns Valley.....	1
Wyandotte County—		Winona County—	
Kansas City.....	11	Rollingstone Township.....	1
Rosedale.....	1	Wright County—	
Total.....	25	Rockford Township.....	1
		Total.....	94

**YOUR PATRIOTIC DUTY—BUY A 1917 LIBERTY BOND.**

## CEREBROSPINAL MENINGITIS—Continued.

## State Reports for April, 1917—Continued.

Place.	New cases reported.	Place.	New cases reported.
Mississippi:		Pennsylvania—Continued.	
Tate County.....	1	Northampton County.....	2
Pennsylvania:		Perry County.....	1
Allegheny County.....	47	Philadelphia County.....	111
Berks County.....	2	Tioga County.....	2
Blair County.....	1	Washington County.....	3
Cambria County.....	4	Wayne County.....	1
Clearfield County.....	1	Westmoreland County.....	3
Dauphin County.....	1	York County.....	1
Delaware County.....	3	Total.....	206
Fayette County.....	9	South Carolina:	
Greene County.....	1	Union County.....	1
Indiana County.....	1	York County.....	1
Lackawanna County.....	1	Total.....	2
Lawrence County.....	3	South Dakota:	
Lebanon County.....	1	Day County.....	2
Lehigh County.....	1		
Luzerne County.....	1		
Mercer County.....	1		
Montgomery County.....	4		

## Washington Report for March, 1917.

During the month of March, 1917, two cases of cerebrospinal meningitis were reported in Washington, one in Adams County and one in Spokane city.

## City Reports for Week Ended May 12, 1917.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Baltimore, Md.....	5	2	Milwaukee, Wis.....	1	2
Boston, Mass.....	2	2	Minneapolis, Minn.....	8	
Buffalo, N. Y.....	2	4	New Castle, Pa.....	2	
Canton, Ohio.....		1	New York, N. Y.....	15	3
Chicago, Ill.....	12	5	Norfolk, Va.....		1
Cincinnati, Ohio.....	1	1	North Adams, Mass.....	1	1
Cleveland, Ohio.....	7	2	Orange, N. J.....	1	
Dayton, Ohio.....		2	Philadelphia, Pa.....	28	7
Detroit, Mich.....	5		Pittsburgh, Pa.....	4	4
Duluth, Minn.....	2		Providence, R. I.....	1	2
Elizabeth, N. J.....	1		St. Louis, Mo.....	8	2
Erie, Pa.....	2		Schenectady, N. Y.....	1	
Hartford, Conn.....	9	5	Sioux City, Iowa.....	1	
Indianapolis, Ind.....	1		South Bend, Ind.....	1	
Jersey City, N. J.....		1	Wheeling, W. Va.....		1
Kansas City, Kans.....	1		Wichita, Kans.....		1
Kansas City, Mo.....	3	1	Wilkesburg, Pa.....	1	
Memphis, Tenn.....		1	Wilmington, Del.....	1	1

## DIPHTHERIA.

## North Carolina—Edgecombe County.

Asst. Surg. Miller reported that during the week ended May 23, 1917, three cases of diphtheria were notified in Edgecombe County, N. C.

See also Diphtheria, measles, scarlet fever, and tuberculosis, p. 866.

**YOUR PATRIOTIC DUTY—BUY A 1917 LIBERTY BOND.**

## ERYSIPELAS.

## City Reports for Week Ended May 12, 1917.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Ann Arbor, Mich.....	1	.....	Memphis, Tenn.....	1	.....
Baltimore, Md.....	2	.....	Milwaukee, Wis.....	6	1
Binghamton, N. Y.....	2	1	Nashville, Tenn.....	1	1
Birmingham, Ala.....	1	.....	Newark, N. J.....	5	2
Boston, Mass.....	.....	8	New York, N. Y.....	.....	5
Braddock, Pa.....	1	.....	Omaha, Nebr.....	1	.....
Bridgeport, Conn.....	1	.....	Passaic, N. J.....	1	.....
Buffalo, N. Y.....	3	.....	Philadelphia, Pa.....	8	2
Chicago, Ill.....	24	7	Pittsburgh, Pa.....	8	2
Chicopee, Mass.....	.....	1	Reading, Pa.....	1	.....
Cleveland, Ohio.....	8	1	Rochester, N. Y.....	2	.....
Detroit, Mich.....	5	1	St. Joseph, Mo.....	3	.....
Duluth, Minn.....	4	.....	St. Louis, Mo.....	17	4
Hartford, Conn.....	2	.....	San Diego, Cal.....	1	.....
Jersey City, N. J.....	.....	1	San Francisco, Cal.....	3	.....
Johnstown, Pa.....	4	.....	Seattle, Wash.....	3	1
Kalamazoo, Mich.....	1	.....	Springfield, Ill.....	1	.....
Kansas City, Mo.....	3	.....	Syracuse, N. Y.....	.....	1
Los Angeles, Cal.....	1	1			

## LEPROSY.

## California—Los Angeles County.

The California State Board of Health reported May 26, 1917, that a case of leprosy had been notified in Los Angeles County, Cal., in a Mexican boy 14 years old, who resided near Artesia, and has been in California two years.

## City Report for Week Ended May 12, 1917.

During the week ended May 12, 1917, one case of leprosy was reported in Springfield, Mass.

## MALARIA.

## State Reports for April, 1917.

Place.	New cases reported.	Place.	New cases reported.
Indiana:		Louisiana—Continued.	
Gibson County.....	5	Concordia Parish.....	3
Martin County.....	20	De Soto Parish.....	9
Owen County.....	2	East Carroll Parish.....	8
Perry County.....	1	East Feliciana Parish.....	3
Pike County.....	10	Iberia Parish.....	1
Johnson County.....	2	Jackson Parish.....	1
Clark County.....	6	Jefferson Davis Parish.....	2
Total.....	46	Morehouse Parish.....	1
Kansas:		Natchitoches Parish.....	5
Wilson County—		St. Charles Parish.....	1
Frederia.....	1	St. John Parish.....	3
Louisiana:		St. Landry Parish.....	27
Acadia Parish.....	2	St. Martin Parish.....	20
Allen Parish.....	7	St. Mary Parish.....	5
Avoyelles Parish.....	7	Tangipahoa Parish.....	2
Beauregard Parish.....	3	Vermilion Parish.....	21
Caddo Parish.....	14	Vernon Parish.....	1
Catahoula Parish.....	2	West Carroll Parish.....	2
		Total.....	150

**YOUR PATRIOTIC DUTY—BUY A 1917 LIBERTY BOND.**

## MALARIA—Continued.

## State Reports for April, 1917—Continued.

Place.	New cases reported.	Place.	New cases reported.
<b>Mississippi:</b>		<b>Mississippi—Continued.</b>	
Adams County.....	27	Monroe County.....	30
Alcorn County.....	27	Montgomery County.....	45
Amite County.....	62	Neshoba County.....	88
Attala County.....	111	Newton County.....	28
Benton County.....	44	Noxubee County.....	60
Bolivar County.....	484	Oktibbeha County.....	93
Calhoun County.....	125	Panola County.....	54
Carroll County.....	52	Pearl River County.....	15
Chickasaw County.....	40	Perry County.....	48
Choctaw County.....	39	Pike County.....	68
Claiborne County.....	72	Pontotoc County.....	78
Clarke County.....	29	Prentiss County.....	54
Clay County.....	54	Quitman County.....	108
Coahoma County.....	358	Rankin County.....	20
Copiah County.....	90	Scott County.....	66
Covington County.....	89	Sharkey County.....	97
De Soto County.....	46	Simpson County.....	85
Forrest County.....	114	Smith County.....	70
Franklin County.....	92	Stone County.....	30
George County.....	25	Sunflower County.....	325
Greene County.....	25	Tate County.....	76
Grenada County.....	32	Tippah County.....	45
Hancock County.....	53	Tishomingo County.....	42
Harrison County.....	66	Tunica County.....	146
Hinds County.....	282	Union County.....	56
Holmes County.....	290	Warren County.....	275
Itawamba County.....	86	Washington County.....	27
Jackson County.....	36	Wayne County.....	22
Jasper County.....	76	Webster County.....	26
Jefferson County.....	89	Winston County.....	69
Jefferson Davis County.....	29	Yalobusha County.....	69
Jones County.....	149	Yazoo County.....	366
Kemper County.....	34	Walthall County.....	39
Lafayette County.....	60		
Lamar County.....	41	Total.....	7,222
Lauderdale County.....	100		
Lawrence County.....	39	<b>South Carolina:</b>	
Leake County.....	66	Beaufort County.....	8
Lee County.....	101	Dorchester County.....	36
Leflore County.....	249	Marion County.....	13
Lincoln County.....	76	Orangeburg County.....	2
Lowndes County.....	27	Williamsburg County.....	1
Madison County.....	31	York County.....	2
Marion County.....	105		
Marshall County.....	147	Total.....	62

## City Reports for Week Ended May 12, 1917.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Berkeley, Cal.....	1	.....	New Orleans, La.....	1	.....
Birmingham, Ala.....	3	1	San Francisco, Cal.....	1	.....
Cincinnati, Ohio.....	1	.....			

## MEASLES.

## Alabama—Jefferson County.

Asst. Epidemiologist Harrington reported that during the month of April, 1917, 732 cases of measles, with 19 deaths, were notified in Birmingham, Jefferson County, Ala., and 1,372 cases, with 45 deaths, in Jefferson County outside the city of Birmingham.

**YOUR PATRIOTIC DUTY—BUY A 1917 LIBERTY BOND.**



**MEASLES—Continued.****California—Los Angeles.**

Senior Surg. Brooks reported that during the week ended May 19, 1917, 243 cases of measles were notified in Los Angeles, Cal.

**North Carolina—Edgecombe County.**

Asst. Surg. Miller reported that during the period from May 10 to 23, 1917, 9 cases of measles were notified in Edgecombe County, N. C.

**Washington—Seattle.**

Surg. Lloyd reported that during the week ended May 19, 1917, 45 cases of measles were notified in Seattle, Wash., making a total of 8,318 cases reported since February 15, 1916.

See also Diphtheria, measles, scarlet fever, and tuberculosis, page 866.

**PELLAGRA.****State Reports for April, 1917.**

Place.	New cases reported.	Place.	New cases reported.
<b>Kansas:</b>		<b>Mississippi—Continued.</b>	
Reno County—		Hinds County.....	44
Pretty Prairie (R. F. D.).....	1	Holmes County.....	10
Sedgwick County—		Itawamba County.....	5
Cheney.....	1	Jackson County.....	4
Total.....	2	Jasper County.....	10
		Jefferson County.....	4
<b>Louisiana:</b>		Jefferson Davis County.....	2
Allen Parish.....	1	Jones County.....	77
Assumption Parish.....	2	Kemper County.....	4
Caddo Parish.....	1	Lafayette County.....	4
De Soto Parish.....	3	Lamar County.....	14
East Baton Rouge Parish.....	1	Lauderdale County.....	24
East Carroll Parish.....	1	Lawrence County.....	6
Iberville Parish.....	1	Leake County.....	6
Lincoln Parish.....	1	Lee County.....	17
Morehouse Parish.....	1	Lefflore County.....	13
Orleans Parish.....	4	Lincoln County.....	20
Total.....	16	Lowndes County.....	7
		Madison County.....	11
<b>Mississippi:</b>		Marion County.....	17
Adams County.....	14	Marshall County.....	23
Alcorn County.....	4	Monroe County.....	4
Amite County.....	2	Montgomery County.....	9
Attala County.....	6	Neshoba County.....	26
Bolivar County.....	72	Newton County.....	1
Calhoun County.....	3	Noxubee County.....	12
Carroll County.....	1	Oktibbeha County.....	10
Chickasaw County.....	2	Panola County.....	4
Choctaw County.....	3	Pearl River County.....	2
Clalborne County.....	5	Perry County.....	20
Clarke County.....	6	Pike County.....	13
Clay County.....	7	Pontotoc County.....	5
Coahoma County.....	65	Prentiss County.....	7
Copiah County.....	26	Quitman County.....	28
Covington County.....	17	Scott County.....	17
De Soto County.....	11	Sharkey County.....	5
Forrest County.....	21	Simpson County.....	6
Franklin County.....	1	Smith County.....	6
George County.....	13	Stone County.....	4
Greene County.....	12	Sunflower County.....	21
Grenada County.....	2	Tate County.....	11
Hancecock County.....	3	Tippah County.....	3
Harrison County.....	16	Tishomingo County.....	4
		Tunica County.....	15
		Union County.....	3

**YOUR PATRIOTIC DUTY—BUY A 1917 LIBERTY BOND.**

## PELLAGRA—Continued.

## State Reports for April, 1917—Continued.

Place.	New cases reported.	Place.	New cases reported.
Mississippi—Continued.		South Carolina—Continued.	
Warren County.....	10	Chester County.....	1
Washington County.....	24	Dorchester County.....	5
Wayne County.....	12	Greenville County.....	7
Webster County.....	1	Greenwood County.....	2
Winston County.....	6	Laurens County.....	1
Yalobusha County.....	4	Newberry County.....	1
Yazoo County.....	28	Orangeburg County.....	1
Walthall County.....	6	Pickens County.....	1
Total.....	961	Richland County.....	3
South Carolina:		Union County.....	1
Anderson County.....	1	Williamsburg County.....	1
Cherokee County.....	1	York County.....	4
		Total.....	30

## City Reports for Week Ended May 12, 1917.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Austin, Tex.....		1	Mobile, Ala.....	1	3
Birmingham, Ala.....	5		Nashville, Tenn.....	3	1
Charleston, S. C.....		3	Norfolk, Va.....		1
Lowell, Mass.....		1	Winston-Salem, N. C.....		1

## PNEUMONIA.

## City Reports for Week Ended May 12, 1917.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Auburn, N. Y.....	5	1	Lexington, Ky.....	1	2
Baltimore, Md.....	16	23	Lincoln, Nebr.....	2	1
Binghamton, N. Y.....	11	3	Los Angeles, Cal.....	5	3
Braddock, Pa.....	2		Manchester, N. H.....	4	4
Cairo, Ill.....	2		Melrose, Mass.....	1	1
Chelsea, Mass.....	1		Nashville, Tenn.....	1	2
Chicago, Ill.....	204	126	Newark, N. J.....	24	13
Cleveland, Ohio.....	22	32	New Bedford, Mass.....	1	
Clinton, Mass.....	3	1	New Castle, Pa.....	1	
Dayton, Ohio.....	4	2	Newport, Ky.....	7	7
Detroit, Mich.....	6	36	Newton, Mass.....	2	
Duluth, Minn.....	2	2	Philadelphia, Pa.....	65	40
Everett, Mass.....	1	1	Pittsburgh, Pa.....	27	19
Fall River, Mass.....	1		Quincy, Mass.....	1	1
Flint, Mich.....	3	1	Rochester, N. Y.....	12	8
Grand Rapids, Mich.....	8	5	San Francisco, Cal.....	18	15
Haverhill, Mass.....	2	1	Schenectady, N. Y.....	2	7
Jackson, Mich.....	1		Topeka, Kans.....	1	
Kalamazoo, Mich.....	6	3	Waltham, Mass.....	2	3
Kansas City, Kans.....	1		Washington, Pa.....	5	
Kansas City, Mo.....	2	12	Wichita, Kans.....	1	
Lawrence, Mass.....	4	3	York, Pa.....	3	

## POLIOMYELITIS (INFANTILE PARALYSIS).

## Kansas.

Collaborating Epidemiologist Crumbine reported that cases of poliomyelitis have been notified in Kansas since May 1, 1917, as follows: Galena 1, Wichita 1.

**YOUR PATRIOTIC DUTY—BUY A 1917 LIBERTY BOND.**

**POLIOMYELITIS (INFANTILE PARALYSIS)**—Continued.**State Reports for April, 1917.**

Place.	New cases reported.	Place.	New cases reported.
<b>Indiana:</b>		<b>Minnesota:</b>	
Lake County.....	2	Blue Earth County—	
Ripley County.....	1	Blue Earth City Township.....	1
<b>Total.....</b>	<b>3</b>	Ramsey County—	
		St. Paul.....	3
<b>Iowa:</b>		<b>Total.....</b>	<b>4</b>
Jefferson County.....	1		
<b>Kansas:</b>		<b>Pennsylvania:</b>	
Harper County—		Allegheny County.....	2
Bluff City (R. F. D.).....	1	Cambria County.....	1
Rawlins County—		Erie County.....	1
Beardsley.....	1	Franklin County.....	1
Wyandotte County—		Lancaster County.....	1
Kansas City.....	1	Lebanon County.....	1
<b>Total.....</b>	<b>3</b>	Philadelphia County.....	4
		Schuylkill County.....	1
<b>Louisiana:</b>		Westmoreland County.....	2
Caddo Parish.....	1	Wyoming County.....	1
<b>Maine:</b>		<b>Total.....</b>	<b>15</b>
Penobscot County—			
Kingman.....	1	<b>South Carolina:</b>	
Newport.....	1	Marion County.....	1
<b>Total.....</b>	<b>2</b>		

**City Reports for Week Ended May 12, 1917.**

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Camden, N. J.....	1		Philadelphia, Pa.....	2	
Grand Rapids, Mich.....	1		Wichita, Kans.....	1	
Newark, N. J.....	1		Wilmington, Del.....	1	1
New York, N. Y.....	3	3			

**RABIES IN ANIMALS.****City Reports for Week Ended May 12, 1917.**

During the week ended May 12, 1917, four cases of rabies in animals were reported in Detroit, Mich., and three cases were reported in Memphis, Tenn.

**ROCKY MOUNTAIN SPOTTED FEVER.****Wyoming—Washakie County.**

During the month of April, 1917, one case of Rocky Mountain spotted fever was reported in Washakie County, Wyo.

**SCARLET FEVER.****Wyoming—Cheyenne.**

Asst. Surg. Wynne reported that during the period from February 12 to May 17, 1917, 31 cases of scarlet fever had been notified in

**YOUR PATRIOTIC DUTY—BUY A 1917 LIBERTY BOND.**

Cheyenne, Wyo., as follows: February 12 to 28, 4 cases with 2 deaths; month of March, 9 cases with 2 deaths; April, 10 cases; May 1 to 17, 8 cases.

See also Diphtheria, measles, scarlet fever, and tuberculosis, page 866.

#### **SMALLPOX.**

##### **Massachusetts—Fitchburg.**

Collaborating Epidemiologist Kelley reported that 2 cases of smallpox were notified at Fitchburg, Mass., May 26, 1917.

##### **Massachusetts—Worcester.**

Collaborating Epidemiologist Kelley reported that during the period from January 25 to May 18, 1917, 25 cases of smallpox were notified in Worcester, Mass., as follows: January 25, 1 case; during March, 5 cases; month of April, 5 cases; May 1 to 18, 14 cases.

##### **Minnesota.**

Collaborating Epidemiologist Bracken reported that during the week ended May 26, 1917, two new foci of smallpox infection were reported in Minnesota, cases of the disease having been notified as follows: Crow Wing County, Klondyke Township, 1; Marshall County, Alma Township, 1.

##### **North Carolina—Edgecombe County.**

Asst. Surg. Miller reported that during the week ended May 16, 1917, two cases of smallpox were notified in Edgecomb County, N. C.

##### **Pennsylvania—Philadelphia.**

Senior Surg. Irwin reported that on May 24, 1917, 4 cases of smallpox were notified at Philadelphia, Pa.

##### **Texas—Galveston.**

Surg. Bahrenburg reported that cases of smallpox were notified at Galveston, Tex., as follows: On May 23 one case and on May 28 two cases.

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**YOUR PATRIOTIC DUTY—BUY A 1917 LIBERTY BOND.**

**SMALLPOX—Continued.**  
**State Reports for April, 1917.**

Place.	New cases reported.	Deaths.	Vaccination history of cases.			
			Number vaccinated within 7 years preceding attack.	Number last vaccinated more than 7 years preceding attack.	Number never successfully vaccinated.	Vaccination history not obtained or uncertain.
<b>Kansas:</b>						
Allen County—						
Iola.....	3				3	
Atchison County—						
Atchison.....	8				8	
Muscotah.....	2				2	
Barton County—						
Hoisington.....	42			1	41	
Chase County—						
Strong City.....	1				1	
Coffey County—						
Burlington (R. F. D.).....	1				1	
Le Roy (R. F. D.).....	10				10	
Cowley County—						
Arkansas City.....	2				2	
Winfield (R. F. D.).....	2			1	1	
Crawford County—						
Arma.....	3				3	
Cherokee (R. F. D.).....	7			1	6	
Franklin.....	2				2	
Frontenac (R. F. D.).....	7				7	
Mulberry.....	3				3	
Doniphan County—						
Bendena (R. F. D.).....	1			1		
Elwood.....	13				13	
Troy (R. F. D.).....	9			1	8	
Wathena (R. F. D.).....	5			1	4	
White Cloud.....	3				3	
Douglas County—						
Lone Star.....	1				1	
Ellis County—						
Hays (R. F. D.).....	2				2	
Ford County—						
Dodge City.....	1				1	
Greenwood County—						
Fall River.....	1				1	
Harper County—						
Bluff City (R. F. D.).....	2				2	
Jackson County—						
Holton.....	1				1	
Labette County—						
Parsons.....	1				1	
Leavenworth County—						
Bonner Springs (R. F. D.).....	1				1	
Lincoln County—						
Beverly (R. F. D.).....	1				1	
Lincoln.....	1				1	
Sylvan Grove (R. F. D.).....	2				2	
Linn County—						
LaCygne.....	2				2	
Pleasanton.....	1				1	
Logan County—						
Russell Springs.....	1				1	
Winona (R. F. D.).....	1				1	
Marion County—						
Durham (R. F. D.).....	1				1	
Hillsboro.....	3				3	
Miami County—						
Osawatimie.....	3				3	
Paola.....	1				1	
Nemaha County—						
Centralia.....	1				1	
Ness County—						
Alexander (R. F. D.).....	1				1	
Norton County—						
Norton.....	1				1	
Ottawa County—						
Minneapolis (R. F. D.).....	6				6	

**YOUR PATRIOTIC DUTY—BUY A 1917 LIBERTY BOND.**



## SMALLPOX—Continued.

## State Reports for April, 1917—Continued.

Place.	New cases reported.	Deaths.	Vaccination history of cases.			
			Number vaccinated within 7 years preceding attack.	Number last vaccinated more than 7 years preceding attack.	Number never successfully vaccinated.	Vaccination history not obtained or uncertain.
Kansas—Continued.						
Pratt County—						
Pratt.....	2			1	1	
Reno County—						
Hutchinson.....	2				2	
Republic County—						
Belleville.....	1				1	
Rice County—						
Little River (R. F. D.)....	25				25	
Riley County—						
Manhattan (R. F. D.)....	1				1	
Rooks County—						
Palco (R. F. D.).....	1				1	
Sedgewick County—						
Wichita.....	14				14	
Seward County—						
Liberal (R. F. D.).....	3				3	
Shawnee County—						
Topeka (R. F. D.).....	6				6	
Sumner County—						
Caldwell.....	7			2	5	
Mulvane.....	1		1			
Thomas County—						
Colby (R. F. D.).....	3				3	
Wabaunsee County—						
Alma.....	2				2	
Washington County—						
Greenleaf.....	1				1	
Wilson County—						
Neodesha.....	1			1		
Wyandotte County—						
Kansas City.....	10				10	
Total.....	240		1	10	229	
Minnesota:						
Blue Earth County—						
Mankato.....	1				1	
Chisago County—						
Taylor Falls.....	4				4	
Franconia Township.....	1					1
Clay County—						
Spring Prairie Township..	2			1	1	
Crow Wing County—						
Brainerd.....	2			1	1	
Jenkins.....	1				1	
Dodge County—						
Claremont.....	1			1		
Hennepin County—						
Edina.....	1					1
Minneapolis.....	133			11	122	
Kanabec County—						
Hilman Township.....	1				1	
Kandiyohi County—						
Willmar.....	1				1	
Lake County—						
Two Harbors.....	1					1
Lincoln County—						
Lake Stay Township.....	1					1
Lyon County—						
Balaton.....	3				1	2
Rock Lake Township.....	1				1	
Marshall County—						
Warren.....	1				1	
Mille Lacs County—						
Milo Township.....	1				1	
Morrison County—						
Belle Prairie Township...	1				1	

YOUR PATRIOTIC DUTY—BUY A 1917 LIBERTY BOND.

## SMALLPOX—Continued.

## State Reports for April, 1917—Continued.

Place.	New cases reported.	Deaths.	Vaccination history of cases.			
			Number vaccinated within 7 years preceding attack.	Number last vaccinated more than 7 years preceding attack.	Number never successfully vaccinated.	Vaccination history not obtained or uncertain.
Minnesota—Continued.						
Mower County—						
Racine.....	1				1	
Murray County—						
Holly Township.....	1				1	
Olmsted County—						
Rochester.....	11				11	
Haverhill Township.....	3				3	
Ottertail County—						
Trondjem Township.....	1				1	
Pennington County—						
Thief River Falls.....	4		1		3	
Pipestone County—						
Elmer Township.....	1				1	
Polk County—						
Crookston.....	5				5	
Ramsey County—						
St. Paul.....	15				15	
Redwood County—						
Morgan.....	1				1	
Granite Rock Township.....	1				1	
St. Louis County—						
Duluth.....	15	1	8	3	4	
Eveleth.....	1		1			
Hibbing.....	2				2	
Fayal Township.....	1				1	
Sherburne County—						
Livonia Township.....	1				1	
Stearns County—						
St. Cloud.....	2				2	
Steele County—						
Blooming Prairie.....	1					1
Swift County—						
De Graff.....	12			2	10	
Dublin Township.....	2				2	
Todd County—						
Staples.....	3				3	
Wabasha County—						
Plainview.....	1				1	
Winona County—						
Winona.....	4				4	
Total.....	246	1	10	19	210	7

## Miscellaneous State Reports.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
<b>Indiana (Apr. 1-30):</b>			<b>Indiana (Apr. 1-30)—Contd.</b>		
Boone County.....	3		Jay County.....	1	
Clay County.....	2		Johnson County.....	2	
Davless County.....	5		Knox County.....	19	
Delaware County.....	1		Lagrange County.....	12	
Elkhart County.....	33		Lake County.....	17	
Floyd County.....	1		Lawrence County.....	2	
Fountain County.....	15	1	Madison County.....	4	
Gibson County.....	15		Marion County.....	40	
Grant County.....	1		Martin County.....	1	
Greene County.....	3		Morgan County.....	1	
Hamilton County.....	1		Owen County.....	26	
Hendricks County.....	12		Parke County.....	2	
Henry County.....	5		Pike County.....	5	
Howard County.....	2		Posey County.....	18	
Jackson County.....	44		Putnam County.....	2	

YOUR PATRIOTIC DUTY—BUY A 1917 LIBERTY BOND.

## SMALLPOX—Continued.

## Miscellaneous State Reports—Continued.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
<b>Indiana (Apr. 1-30)—Contd.</b>			<b>Mississippi (Apr. 1-30):</b>		
Ripley County.....	2		Alcorn County.....	8	
Sullivan County.....	9		Attala County.....	8	
Tippacanoe County.....	58		Calhoun County.....	2	
Tipton County.....	19		Choctaw County.....	15	
Vanderburg County.....	14		Clarke County.....	1	
Vermilion County.....	23		Coshama County.....	7	
Vigo County.....	71		Copiah County.....	2	
Warren County.....	3		Covington County.....	1	
Warriek County.....	3		Forrest County.....	4	
Wells County.....	2		Grenada County.....	10	
<b>Total.....</b>	<b>496</b>	<b>1</b>	Holmes County.....	2	
<b>Iowa (Apr. 1-30):</b>			Itawamba County.....	8	
Benton County.....	2		Jasper County.....	18	
Blackhawk County.....	1		Jefferson County.....	1	
Boone County.....	15		Jones County.....	32	
Carroll County.....	1		Lafayette County.....	3	
Cedar County.....	8		Lauderdale County.....	6	
Cherokee County.....	1		Leake County.....	9	
Crawford County.....	3		Leflore County.....	2	
Davis County.....	1		Madison County.....	13	
Des Moines County.....	1		Marion County.....	1	
Fayette County.....	1		Marshall County.....	3	
Floyd County.....	3		Neshoba County.....	3	
Hardin County.....	1		Noxubee County.....	25	
Henry County.....	11		Oktibbeha County.....	1	
Ida County.....	1		Panola County.....	1	
Keokuk County.....	1		Pearl River County.....	1	
Linn County.....	1		Quitman County.....	2	
Mitchell County.....	1		Tate County.....	1	
Monona County.....	7		Tunica County.....	2	
O'Brien County.....	1		Union County.....	15	
Osceola County.....	1		Warren County.....	10	
Page County.....	3		Walthall County.....	4	
Plymouth County.....	2		<b>Total.....</b>	<b>221</b>	
Pocahontas County.....	1		<b>North Dakota (Apr. 1-30):</b>		
Polk County.....	6		Bowman County.....	1	
Pottawattamie County.....	41		Dickey County.....	2	
Ringgold County.....	1		Golden Valley County.....	1	
Scott County.....	15		LaMoore County.....	1	
Sioux County.....	1		McHenry County.....	2	
Van Buren County.....	8		McKenzie County.....	6	
Wapello County.....	4		Mountain County.....	40	
Wayne County.....	8		Nelson County.....	9	
Webster County.....	10		Ramsay County.....	3	
Wright County.....	1		Rolette County.....	4	
<b>Total.....</b>	<b>163</b>		Slope County.....	1	
<b>Louisiana (Apr. 1-30):</b>			Steele County.....	8	
Allen Parish.....	1		Townsend County.....	4	
Caddo Parish.....	2		Walsh County.....	3	
Calcasieu Parish.....	14		Burleigh County.....	2	
East Baton Rouge Parish.....	1		<b>Total.....</b>	<b>86</b>	
Iberia Parish.....	1		<b>Pennsylvania (Apr. 1-30):</b>		
Orleans Parish.....	23		Allegheny County.....	10	
Pointe Coupee Parish.....	1		Dauphin County.....	2	
Rapides Parish.....	10		Jefferson County.....	1	
St. Landry Parish.....	2		Lawrence County.....	17	
St. Tammany Parish.....	3		Mercer County.....	2	
Tangipahoa Parish.....	3		Warren County.....	1	
Terrebonne Parish.....	3		<b>Total.....</b>	<b>33</b>	
Vermilion Parish.....	3		<b>South Carolina (Apr. 1-30):</b>		
Washington Parish.....	1		Aiken County.....	1	
West Baton Rouge Parish.....	1		Marlboro County.....	1	
<b>Total.....</b>	<b>69</b>		<b>Total.....</b>	<b>2</b>	
<b>Maine (Apr. 1-30):</b>			<b>South Dakota (Apr. 1-30):</b>		
Kennebec County.....			Codington County.....	2	
Waterville.....	1		Davidson County.....	18	
Penobscot County.....			Dewey County.....	2	
Millinocket.....	1		Edmunds County.....	2	
Washington County.....			Faulk County.....	2	
Calais.....	1		Grant County.....	2	
<b>Total.....</b>	<b>3</b>		Gregory County.....	1	

YOUR PATRIOTIC DUTY—BUY A 1917 LIBERTY BOND.

## SMALLPOX—Continued.

## Miscellaneous State Reports—Continued.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
South Dakota (Apr. 1-30)—Continued.			Washington (Mar. 1-31)—Continued.		
Jerauld County.....	2	.....	Okanogan County.....	1	.....
Kingsbury County.....	1	.....	Pend Oreille County.....	1	.....
Lake County.....	5	.....	Snohomish County.....	4	.....
Miner County.....	2	.....	Everett.....	1	.....
Minnehaha County.....	8	.....	Snohomish.....	1	.....
Sully County.....	10	.....	Spokane County.....	1	.....
Walworth County.....	6	.....	Spokane.....	17	.....
Total.....	63	.....	Whitcomb County.....	1	.....
Washington (Mar. 1-31):			Yakima County.....	4	.....
Adams County.....	1	.....	Granger.....	1	.....
Chelan County.....	1	.....	Total.....	33	.....
King County.....	1	.....			
Seattle.....	1	.....			

## City Reports for Week Ended May 12, 1917.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Austin, Tex.....	1	2	Lima, Ohio.....	1	.....
Buffalo, N. Y.....	1	.....	Little Rock, Ark.....	7	.....
Butte, Mont.....	4	.....	Marinette, Wis.....	2	.....
Cairo, Ill.....	1	.....	Memphis, Tenn.....	9	.....
Canton, Ohio.....	1	.....	Milwaukee, Wis.....	1	.....
Chicago, Ill.....	5	.....	Minneapolis, Minn.....	24	.....
Cincinnati, Ohio.....	1	.....	New Orleans, La.....	4	.....
Cleveland, Ohio.....	6	.....	Oklahoma City, Okla.....	7	.....
Danville, Ill.....	5	.....	Omaha, Nebr.....	5	.....
Davenport, Iowa.....	3	.....	Pittsburgh, Pa.....	2	.....
Detroit, Mich.....	12	.....	Pontiac, Mich.....	2	.....
Duluth, Minn.....	1	.....	Quincy, Ill.....	1	.....
East Chicago, Ind.....	1	.....	Roanoke, Va.....	4	.....
Evansville, Ind.....	4	.....	St. Joseph, Mo.....	10	.....
Fort Wayne, Ind.....	6	.....	St. Louis, Mo.....	14	.....
Galesburg, Ill.....	4	.....	Salt Lake City, Utah.....	2	.....
Galveston, Tex.....	3	.....	Sioux City, Iowa.....	13	.....
Grand Rapids, Mich.....	1	.....	Springfield, Ill.....	1	.....
Hartford, Conn.....	1	.....	Tacoma, Wash.....	5	.....
Indianapolis, Ind.....	6	.....	Toledo, Ohio.....	1	.....
Jackson, Mich.....	5	.....	Topeka, Kans.....	1	.....
Kansas City, Kans.....	2	.....	Washington, D. C.....	1	.....
Kansas City, Mo.....	11	.....	Washington, Pa.....	1	.....
La Crosse, Wis.....	2	.....	Wichita, Kans.....	1	.....
Lexington, Ky.....	2	.....	Worcester, Mass.....	6	.....

## TETANUS.

## City Reports for Week Ended May 12, 1917.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Austin, Tex.....	1	1	New York, N. Y.....	2	2
Birmingham, Ala.....	1	.....	Orange, N. J.....	.....	.....
Chicago, Ill.....	2	1	St. Louis, Mo.....	2	2
Mobile, Ala.....	.....	1			

## TUBERCULOSIS.

See Diphtheria, measles, scarlet fever, and tuberculosis, page 866.

**YOUR PATRIOTIC DUTY—BUY A 1917 LIBERTY BOND.**

## TYPHOID FEVER.

## State Reports for April, 1917.

Place.	New cases reported.	Place.	New cases reported.
<b>Indiana:</b>		<b>Louisiana:</b>	
Cass County.....	1	Allen Parish.....	1
Clark County.....	5	Avoyelles Parish.....	40
Dearborn County.....	1	Beauregard Parish.....	1
Elkhart County.....	3	Bienville Parish.....	1
Fulton County.....	1	Caddo Parish.....	3
Greene County.....	2	Calcasieu Parish.....	6
Harrison County.....	1	De Soto Parish.....	1
Howard County.....	1	East Baton Rouge Parish.....	1
Kosciusko County.....	2	Iberville Parish.....	2
Lake County.....	27	Jackson Parish.....	1
Marion County.....	5	Jefferson Davis Parish.....	2
Owen County.....	1	Lafayette Parish.....	2
Posey County.....	1	Lafourche Parish.....	7
St. Joseph County.....	23	Livingston Parish.....	1
Tippecanoe County.....	3	Orleans Parish.....	20
Vanderburg County.....	1	Plaquemines Parish.....	1
Warrick County.....	4	St. Charles Parish.....	1
Washington County.....	2	St. Helena Parish.....	1
Wayne County.....	1	St. James Parish.....	2
Wells County.....	4	St. Landry Parish.....	5
<b>Total.....</b>	<b>89</b>	St. Martin Parish.....	1
<b>Kansas:</b>		St. Mary Parish.....	1
Atchison County—		St. Tammany Parish.....	1
Atchison.....	1	West Baton Rouge Parish.....	1
Huron.....	1	West Carroll Parish.....	1
Butler County—		<b>Total.....</b>	<b>74</b>
Augusta (R. F. D.).....	1	<b>Maine:</b>	
Rose Hill.....	2	Cumberland County—	
Chautauqua County—		Portland.....	6
Peru.....	1	Penobscot County—	
Sedan.....	1	Glenburn.....	2
Cherokee County—		Piscataquis County—	
Scammon.....	5	Greenville.....	1
Crawford County—		Washington County—	
Arma.....	1	Machias.....	1
Radley.....	1	York County—	
Dickinson County—		Biddeford.....	1
Herington.....	1	Limerick.....	1
Douglas County—		<b>Total.....</b>	<b>12</b>
Lawrence (R. F. D.).....	2	<b>Minnesota:</b>	
Ford County—		Beltrami County—	
Spearville (R. F. D.).....	1	Baudette.....	2
Franklin County—		Bemidji.....	1
Ottawa.....	1	Spooner.....	1
Harper County—		McDougal Township.....	1
Anthony.....	2	Bigstone County—	
Johnson County—		Johnson.....	1
Stanley.....	1	Brown County—	
Leavenworth County—		New Ulm.....	1
Lansing.....	3	Carlton County—	
Leavenworth (R. F. D.).....	23	Moose Lake.....	1
Marion County—		Crow Wing County—	
Marion (R. F. D.).....	1	Brainerd.....	1
Marshall County—		Klondyke Township.....	1
Frankfort.....	1	Perry Lake Township.....	1
Nemaha County—		Grant County—	
Centralia.....	1	Herman.....	1
Reno County—		Kittson County—	
Hutchinson.....	2	Kennedy.....	1
Republic County—		Lake County—	
Scandia.....	1	Two Harbors.....	1
Sedgwick County—		Marshall County—	
Kechi (R. F. D.).....	2	Warren.....	1
Shawnee County—		Valley Township.....	1
Topeka.....	2	Mower County—	
Wilson County—		Lyle.....	1
Fredonia.....	1	Lyle Township.....	1
Woodson County—		Norman County—	
Gridley (R. F. D.).....	1	Hendrum.....	1
Wyandotte County—		Olmsted County—	
Kansas City.....	1	Pleasant Grove Township.....	1
<b>Total.....</b>	<b>61</b>	Pennington County—	
		Sanders Township.....	1

YOUR PATRIOTIC DUTY—BUY A 1917 LIBERTY BOND.



**TYPHOID FEVER—Continued.**  
**State Reports for April, 1917—Continued.**

Place.	New cases reported.	Place.	New cases reported.
<b>Minnesota—Continued.</b>		<b>Mississippi—Continued.</b>	
Ramsey County—		Yalobusha County.....	5
St. Paul.....	1	Yazoo County.....	2
Rice County—		Total.....	188
Faribault.....	1		
Roseau County—		<b>North Dakota:</b>	
Warroad.....	1	Burleigh County.....	9
St. Louis County—		Cass County.....	2
Duluth.....	1	Stutsman County.....	4
Ely.....	1	Morton County.....	1
Eveleth.....	2	Ward County.....	1
Soudan.....	1	Total.....	17
Stearns County—			
Oak Township.....	2	<b>Pennsylvania:</b>	
Wabasha County—		Adams County.....	1
Plainview.....	1	Allegheny County.....	39
Wadena County—		Armstrong County.....	3
Wadena.....	2	Beaver County.....	22
Wilkin County—		Bedford County.....	3
Roberts Township.....	1	Berks County.....	20
Wright County—		Blair County.....	9
Cokato.....	1	Bradford County.....	1
Total.....	36	Bucks County.....	5
		Butler County.....	4
<b>Mississippi:</b>		Cambria County.....	5
Adams County.....	4	Carbon County.....	4
Amite County.....	1	Center County.....	4
Attala County.....	1	Clarion County.....	3
Benton County.....	3	Clearfield County.....	2
Bolivar County.....	1	Columbia County.....	3
Calhoun County.....	2	Crawford County.....	3
Carroll County.....	2	Cumberland County.....	1
Chickasaw County.....	1	Dauphin County.....	5
Clarke County.....	2	Delaware County.....	4
Clay County.....	2	Elk County.....	1
Copiah County.....	6	Erie County.....	11
Covington County.....	14	Fayette County.....	6
Forrest County.....	4	Franklin County.....	2
Franklin County.....	3	Fulton County.....	2
Greene County.....	1	Indiana County.....	1
Hancock County.....	1	Lackawanna County.....	3
Harrison County.....	2	Lancaster County.....	6
Hinds County.....	10	Lawrence County.....	8
Holmes County.....	5	Lebanon County.....	17
Jackson County.....	2	Lehigh County.....	6
Jasper County.....	4	Luzerne County.....	10
Jefferson Davis County.....	1	Lycoming County.....	2
Jones County.....	4	Montgomery County.....	7
Kemper County.....	4	Northampton County.....	7
Lafayette County.....	12	Perry County.....	6
Lamar County.....	11	Philadelphia County.....	23
Lauderdale County.....	1	Schuylkill County.....	4
Lawrence County.....	2	Snyder County.....	3
Leake County.....	2	Somerset County.....	3
Lee County.....	3	Susquehanna County.....	1
Leflore County.....	3	Union County.....	2
Madison County.....	1	Washington County.....	14
Marion County.....	1	Wayne County.....	5
Marshall County.....	1	Westmoreland County.....	7
Neshoba County.....	2	York County.....	5
Noxubee County.....	3	Total.....	303
Oktibbeha County.....	2		
Pearl River County.....	3	<b>South Carolina:</b>	
Perry County.....	1	Charleston County.....	13
Pike County.....	3	Chester County.....	1
Pontotoc County.....	6	Chesterfield County.....	2
Scott County.....	2	Fairfield County.....	1
Smith County.....	2	Richland County.....	1
Stone County.....	1	Sumpter County.....	1
Sunflower County.....	5	Total.....	19
Tate County.....	1		
Tippah County.....	2	<b>South Dakota:</b>	
Tishomingo County.....	1	Charles Mix County.....	1
Tunica County.....	1	Minnehaha County.....	2
Union County.....	1	Spink County.....	2
Warren County.....	9	Walworth County.....	2
Washington County.....	10	Total.....	7
Webster County.....	2		
Winston County.....	5		

**YOUR PATRIOTIC DUTY—BUY A 1917 LIBERTY BOND.**

**TYPHOID FEVER—Continued.**  
**Washington Report for March, 1917.**

Place.	New cases reported.	Place.	New cases reported.
<b>Washington:</b>		<b>Washington—Continued.</b>	
Clark County.....	3	Skagit County.....	1
Ridgefield.....	1	Snohomish County.....	5
Columbia County.....	2	Spokane County—	4
Cowlitz County.....	3	Spokane.....	1
King County—		Stevens County—	
Auburn.....	1	Kettle Falls.....	1
Seattle.....	1	Thurston County—	
Tolt.....	1	Tono.....	1
Lincoln County—		Walla Walla County—	
Davenport.....	1	Prescott.....	1
Okanogan County.....	1	Yakima County.....	2
Okanogan.....	2	North Yakima.....	1
Pend Oreille County—		<b>Total.....</b>	<b>33</b>
Metalline Falls.....	1		

**City Reports for Week Ended May 12, 1917.**

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Albany, N. Y.....	2		Milwaukee, Wis.....	1	
Atlantic City, N. J.....	1		Mobile, Ala.....		1
Auburn, N. Y.....		1	Nashville, Tenn.....	2	
Baltimore, Md.....	4	1	Newark, N. J.....	1	
Birmingham, Ala.....	7	1	New Haven, Conn.....	3	
Boston, Mass.....	2		New Orleans, La.....	3	2
Brockton, Mass.....	1		New York, N. Y.....	28	7
Buffalo, N. Y.....	5	2	Oakland, Cal.....	2	
Butte, Mont.....	3		Pasadena, Cal.....		1
Cairo, Ill.....	1		Philadelphia, Pa.....	12	2
Chicago, Ill.....		1	Pittsburgh, Pa.....	5	1
Cleveland, Ohio.....	3		Plainfield, N. J.....	1	
Covington, Ky.....	1		Portland, Me.....	3	
Danville, Ill.....	1		Providence, R. I.....	1	1
Dayton, Ohio.....	2		Roanoke, Va.....		1
Detroit, Mich.....	4	2	Rochester, N. Y.....	2	
East Chicago, Ind.....	3		St. Joseph, Mo.....	1	
Erie, Pa.....	1		St. Louis, Mo.....	5	2
Everett, Mass.....	1		Salt Lake City, Utah.....	1	
Flint, Mich.....		1	San Francisco, Cal.....	2	1
Fort Wayne, Ind.....	2		Schenectady, N. Y.....		1
Galveston, Tex.....	1		Somerville, Mass.....	2	
Hartford, Conn.....	1		Superior, Wis.....	2	
Indianapolis, Ind.....	1		Topeka, Kans.....	1	
Kenosha, Wis.....	1		Troy, N. Y.....		1
Kokomo, Ind.....	1		Washington, D. C.....	2	
Lancaster, Pa.....	1		Watertown, N. Y.....	1	
Lima, Ohio.....		1	Wheeling, W. Va.....	2	
Los Angeles, Cal.....	2		Wilmington, Del.....	2	1
Lowell, Mass.....	1		York, Pa.....	2	
Lynn, Mass.....	1		Zanesville, Ohio.....	4	
Memphis, Tenn.....	1				

**TYPHUS FEVER.**

**Texas.**

Senior Surg. Pierce reported concerning the typhus fever situation on the Texas-Mexico border during the week ended May 12, 1917, as follows: No new cases were notified during the week. The total number of cases that have been reported on the border from July

**YOUR PATRIOTIC DUTY—BUY A 1917 LIBERTY BOND.**

1, 1916, to May 12, 1917, is 82. During the week named, 66,568 persons were inspected by medical officers. Of the number inspected, 2,971 were disinfected for the destruction of vermin and 1,220 were vaccinated against smallpox. Five persons were refused admission on account of illness.

### DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS.

#### State Reports for April, 1917.

State.	Cases reported.			State.	Cases reported.		
	Diphtheria.	Measles.	Scarlet fever.		Diphtheria.	Measles.	Scarlet fever.
Indiana.....	194	7,188	543	Mississippi.....	27	6,092	45
Iowa.....	16	.....	125	North Dakota.....	24	197	81
Kansas.....	109	6,353	556	Pennsylvania.....	1,088	5,319	886
Louisiana.....	52	361	9	South Carolina.....	55	604	12
Maine.....	19	445	17	South Dakota.....	16	97	42
Minnesota.....	246	1,404	376	Wyoming.....	.....	196	43

#### Washington Report for March, 1917.

During the month of March, 1917, 24 cases of diphtheria, 3,179 cases of measles, and 118 cases of scarlet fever were reported in Washington.

#### City Reports for Week Ended May 12, 1917.

City.	Popula- tion as of July 1, 1916 (estimated by U. S. Census Bureau).	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Over 500,000 inhabitants:										
Baltimore, Md.	589,621	232	8	2	261	4	22	1	35	35
Boston, Mass.	756,476	278	94	5	239	5	38	3	56	30
Chicago, Ill.	2,497,722	800	181	27	870	7	350	25	239	81
Cleveland, Ohio.	674,073	220	30	2	118	4	19	2	37	22
Detroit, Mich.	571,784	255	72	10	42	1	110	2	35	31
Los Angeles, Cal.	503,812	108	10	.....	292	.....	20	.....	40	20
New York, N. Y.	5,602,841	1,521	285	28	1,176	20	201	4	242	180
Philadelphia, Pa.	1,709,518	597	54	6	140	2	46	1	120	88
Pittsburgh, Pa.	579,060	138	23	2	134	1	14	.....	36	16
St. Louis, Mo.	757,309	246	80	7	360	7	92	3	42	20
From 300,000 to 500,000 inhab- itants:										
Buffalo, N. Y.	468,558	115	21	1	66	.....	21	1	38	9
Cincinnati, Ohio.	410,476	121	17	.....	91	2	9	.....	29	15
Jersey City, N. J.	306,345	89	10	1	52	.....	22	.....	13	11
Milwaukee, Wis.	436,535	128	12	2	36	2	78	1	23	4
Minneapolis, Minn.	363,454	.....	24	.....	22	.....	16	.....	.....	.....
Newark, N. J.	408,894	114	13	.....	78	.....	9	.....	48	9
New Orleans, La.	371,747	141	3	.....	14	.....	1	.....	35	27
San Francisco, Cal.	463,516	139	.....	1	126	.....	22	1	19	14
Seattle, Wash.	348,639	58	2	.....	63	.....	3	.....	18	4
Washington, D. C.	363,980	113	3	1	152	.....	5	.....	20	10
From 200,000 to 300,000 inhab- itants:										
Columbus, Ohio.	214,878	71	5	.....	14	.....	3	.....	9	5
Denver, Colo.	290,800	.....	3	.....	95	1	12	.....	.....	14
Indianapolis, Ind.	271,708	.....	17	.....	332	.....	30	.....	20	.....
Kansas City, Mo.	297,847	81	8	1	95	1	52	2	3	6
Portland, Oreg.	295,463	48	.....	.....	28	.....	26	.....	6	3
Providence, R. I.	254,960	91	6	1	18	.....	7	.....	9	9
Rochester, N. Y.	256,417	85	3	.....	93	.....	26	1	3	8

**YOUR PATRIOTIC DUTY—BUY A 1917 LIBERTY BOND.**

# DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS— Continued.

City Reports for Week Ended May 12, 1917—Continued.

City.	Popula- tion as of July 1, 1916 (estimated by U. S. Census Bureau).	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
From 100,000 to 200,000 inhabit- ants:										
Albany, N. Y.	104,199		4		31		5		3	
Birmingham, Ala.	181,762	83	1		64	5	3		11	6
Bridgeport, Conn.	121,579	44	2	2	37	1	5		1	2
Camden, N. J.	106,233		3		2		1		4	
Dayton, Ohio.	127,224	28	5		73	1	20		4	5
Fall River, Mass.	128,366	46	4		56	5	1		7	6
Fort Worth, Tex.	104,562	24			7	1				
Grand Rapids, Mich.	128,291	47	2		154	1	16		5	1
Hartford, Conn.	110,900		3		18		8		8	4
Lawrence, Mass.	100,560	33	3	1					5	2
Lowell, Mass.	113,245	46	4	1	10		1		7	7
Lynn, Mass.	102,425	28	2		11		5	1	5	4
Memphis, Tenn.	148,995	46	4		24		6		19	10
Nashville, Tenn.	117,057		1		17				8	7
New Bedford, Mass.	118,158	31	3		7		1		11	5
New Haven, Conn.	149,685		4		113	3	1		17	5
Oakland, Cal.	198,604				13		14		5	3
Omaha, Nebr.	165,470	59	3		97	1	32		1	1
Reading, Pa.	109,381	35	2		2		5	1		5
Richmond, Va.	156,687	42			42		1		1	4
Salt Lake City, Utah.	117,399	28			5		13			
Springfield, Mass.	105,942	26	7		75		5		3	6
Syracuse, N. Y.	155,624	46	6		63		20		4	6
Tacoma, Wash.	112,770						1			
Toledo, Ohio.	191,554		2		56		38	1	32	9
Trenton, N. J.	111,593	38	3	1	2				6	4
Worcester, Mass.	163,314	66	3	1	5		9	1	8	9
From 50,000 to 100,000 inhabit- ants:										
Atlantic City, N. J.	57,660				33				2	
Bayonne, N. J.	69,893						3		4	
Berkeley, Cal.	57,653	9	3		19		1			
Binghamton, N. Y.	53,973	17	1		21		3			1
Brockton, Mass.	67,449	16	1		6				3	
Canton, Ohio.	60,852	17	2	1	1		3		3	1
Charleston, S. C.	60,734	37			2		1			5
Covington, Ky.	57,144	22	3		4		1		6	5
Duluth, Minn.	94,495	12	4		30		3		1	1
Elizabeth, N. J.	86,690	28	8		58		4		2	4
El Paso, Tex.	63,705	80		2	16	1	1			11
Erie, Pa.	75,195				48		1			20
Evansville, Ind.	76,078	21	1		25		1		4	2
Flint, Mich.	54,772	7	1		18		22		2	
Fort Wayne, Ind.	76,183	23			5		7		3	2
Harrisburg, Pa.	72,015	24			9		6		6	3
Hoboken, N. J.	77,214	21			6		2		5	5
Johnstown, Pa.	68,529	33			32		6		4	
Kansas City, Kans.	99,437		2		15		10		3	
Lancaster, Pa.	50,853				14					
Little Rock, Ark.	57,343	27			3		1			
Malden, Mass.	51,155	11	8		27		2			
Manchester, N. H.	78,283	29	1		7		5			
Mobile, Ala.	58,221	20			6	1	1			1
New Britain, Conn.	53,794	13	2		3		4			
Norfolk, Va.	89,612				14		3			3
Oklahoma City, Okla.	92,943	13			5		3			1
Passaic, N. J.	71,744	17	3		1				2	3
Portland, Me.	63,867	18	1		5		1			1
Sacramento, Cal.	66,895	22			7				7	1
Saginaw, Mich.	55,642	14	1		3		8			
St. Joseph, Mo.	85,236	20	1		4		5		1	1
San Diego, Cal.	53,330	16	1		48				4	4
Schenectady, N. Y.	99,519	25	3		69		2		13	
Sioux City, Iowa.	57,078						7			
Somerville, Mass.	87,039	28	4		10		5		2	3
South Bend, Ind.	68,946	8			6		10			2
Springfield, Ill.	61,120	17	4	1	11		3			

YOUR PATRIOTIC DUTY—BUY A 1917 LIBERTY BOND.

# DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS— Continued.

City Reports for Week Ended May 12, 1917—Continued.

City.	Popula- tion as of July 1, 1916 (estimated by U. S. Census Bureau).	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
From 50,000 to 100,000 inhabitants—Continued.										
Troy, N. Y.	77,916		3		33		6		2	7
Wichita, Kans.	70,722		1		41		5			
Wilkes-Barre, Pa.	76,776	21	7		12		4		2	2
Wilmington, Del.	94,265	30	2		2		1			3
York, Pa.	51,656		15						2	
From 25,000 to 50,000 inhabitants:										
Alameda, Cal.	27,732	7	1		8		1			
Auburn, N. Y.	37,385	6			1					1
Austin, Tex.	34,814	20					1			1
Brookline, Mass.	32,730	10			7		2		3	1
Butler, Pa.	27,632	6	2				1		2	1
Butte, Mont.	43,425	23			16					
Chelsea, Mass.	46,192	13	3		1				3	3
Chicopee, Mass.	29,319	6	1						11	
Cumberland, Md.	26,074		1				1		5	
Danville, Ill.	32,261	3			22					
Davenport, Iowa.	48,811		1		2		1			
Dubuque, Iowa.	39,873		1		3		5			
East Chicago, Ind.	28,743		2		24		6		1	1
East Orange, N. J.	42,458	6	2		25		4		2	
Elgin, Ill.	28,203	12	8	1	5		1			
Everett, Mass.	39,233	8	7	1	4		1		4	
Everett, Wash.	35,486	12			2					
Fitchburg, Mass.	41,781	8			6		2		2	
Galveston, Tex.	41,863	11	1						1	1
Haverhill, Mass.	48,477	22	3				2		3	
Jackson, Mich.	35,363	10		1	33		3		1	
Kalamazoo, Mich.	48,886	26		2	22	1	4	1	8	4
Kenosha, Wis.	31,576	5	1		70					
Kingston, N. Y.	26,771	6								2
Knoxville, Tenn.	38,676				2				3	
La Crosse, Wis.	31,677	6	8				2		1	
Lexington, Ky.	41,097	27	1	1	13		1		7	4
Lima, Ohio.	35,384	10			1		2			
Lincoln, Nebr.	46,515	19	1		46		7	1		1
Long Beach, Cal.	27,587	10			2				1	1
Lorain, Ohio.	36,964		1		1		8		1	
Lynchburg, Va.	32,940	6			2		1			1
Madison, Wis.	30,699						11			
Medford, Mass.	26,234	5	4		22		1		2	
Montclair, N. J.	26,318	5			1		1			
Nashua, N. H.	27,327	10			58					
Newburgh, N. Y.	29,603	14			1		1		2	2
New Castle, Pa.	41,133									
Newport, Ky.	31,927	12								
Newport, R. I.	30,108	7					1			1
Newton, Mass.	43,715	7	3		27		1			
Niagara Falls, N. Y.	37,353	15			49				1	1
Norristown, Pa.	31,401	6					1			1
Ogden, Utah.	31,404	6					4			
Orange, N. J.	33,080	14	1		3		1			
Pasadena, Cal.	46,450	12			10					2
Perth Amboy, N. J.	41,185		3		2				1	
Pittsfield, Mass.	38,629	15			46		2		5	3
Portsmouth, Va.	39,651	6			11		6			
Quincy, Ill.	36,798	9			12		2			
Quincy, Mass.	38,136	12					2		1	4
Racine, Wis.	46,486		1		2		1		1	2
Roanoke, Va.	43,284	9	4		6	1			1	2
San Jose, Cal.	38,902		3		36		1		2	1
Steubenville, Ohio.	27,445	9								
Superior, Wis.	46,226	12		1			1		5	1
Taunton, Mass.	36,283	12			4				2	3
Topeka, Kans.	48,726	6	4		9		4		6	
Waltham, Mass.	30,570	7			8		1		3	
Watertown, N. Y.	29,894	10			6				4	
West Hoboken, N. J.	43,139	7	2		9		10		2	1
Wheeling, W. Va.	43,377	14	1		8		1		1	3

YOUR PATRIOTIC DUTY—BUY A 1917 LIBERTY BOND.



# DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS— Continued.

City Reports for Week Ended May 12, 1917—Continued.

City.	Population as of July 1, 1916 (estimated by U. S. Census Bureau).	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
From 25,000 to 50,000 inhabitants—Continued.										
Williamsport, Pa.....	33,809	.....	4	.....	16	.....	.....	.....	1	.....
Wilmington, N. C.....	29,892	13	1	.....	15	.....	.....	.....	.....	.....
Winston-Salem, N. C.....	31,155	20	2	.....	38	.....	1	.....	7	2
Zanesville, Ohio.....	30,863	10	1	.....	1	.....	.....	.....	.....	.....
From 10,000 to 25,000 inhabitants:										
Ann Arbor, Mich.....	15,010	10	2	1	41	.....	5	1	.....	.....
Beaver Falls, Pa.....	13,532	.....	.....	.....	8	.....	.....	.....	.....	.....
Braddock, Pa.....	21,685	.....	.....	.....	2	.....	.....	.....	2	.....
Cairo, Ill.....	15,794	4	1	.....	1	.....	.....	.....	.....	1
Clinton, Mass.....	13,075	2	1	.....	4	.....	1	.....	1	.....
Coffeyville, Kans.....	17,548	.....	.....	.....	7	.....	.....	.....	.....	.....
Concord, N. H.....	22,669	6	2	.....	34	.....	.....	.....	.....	.....
Galesburg, Ill.....	24,276	5	2	.....	28	.....	.....	.....	.....	.....
Kearny, N. J.....	23,539	.....	.....	.....	4	.....	1	.....	1	2
Kokomo, Ind.....	20,930	10	.....	.....	.....	.....	1	.....	1	.....
Long Branch, N. J.....	15,395	5	.....	.....	4	.....	1	.....	.....	.....
Marinette, Wis.....	14,610	6	.....	.....	1	.....	.....	.....	.....	.....
Melrose, Mass.....	17,445	3	1	.....	1	.....	.....	.....	3	.....
Morristown, N. J.....	13,284	5	.....	.....	1	.....	.....	.....	.....	.....
Nanticoke, Pa.....	13,126	7	1	.....	.....	.....	.....	.....	2	.....
Newburyport, Mass.....	15,243	3	.....	.....	23	.....	.....	.....	1	.....
New London, Conn.....	20,985	9	1	.....	6	.....	.....	.....	.....	.....
North Adams, Mass.....	12,019	1	.....	.....	48	.....	1	.....	.....	.....
Northampton, Mass.....	19,926	9	.....	.....	30	.....	1	.....	1	3
Plainfield, N. J.....	23,805	2	.....	.....	2	.....	.....	.....	3	1
Pontiac, Mich.....	17,524	.....	1	.....	7	.....	17	.....	4	.....
Portsmouth, N. H.....	11,666	.....	3	.....	4	.....	5	.....	.....	.....
Rocky Mount, N. C.....	12,067	7	.....	.....	.....	.....	.....	.....	1	.....
Rutland, Vt.....	14,831	6	1	1	2	.....	2	.....	.....	.....
Sandusky, Ohio.....	20,193	4	.....	.....	11	.....	.....	.....	.....	.....
Saratoga Springs, N. Y.....	13,821	5	.....	.....	.....	.....	.....	.....	.....	1
Steelton, Pa.....	15,548	2	.....	.....	6	.....	1	.....	1	.....
Washington, Pa.....	21,618	.....	.....	.....	.....	.....	.....	.....	2	.....
Wilkinsburg, Pa.....	23,228	6	.....	.....	1	.....	.....	.....	.....	.....

<sup>1</sup> Population Apr. 15, 1910; no estimate made.

## SPECIAL STATE REPORTS.

### California Report for Week Ended May 12, 1917.

Measles still continues throughout the State. During the second week of May large numbers of cases were notified in Berkeley, Red-ley, Los Angeles, Pasadena, San Diego, San Francisco, San Jose, Santa Clara, and Red Bluff. From the rural districts many cases were also reported, particularly in Shasta, Solano, Los Angeles, and Fresno Counties. Mumps became more prevalent during the week. The cities reporting its presence are Alameda, Lordsburg, Compton, Los Angeles, Riverside, Redlands, San Francisco, and San Diego. The distribution in rural communities is shown by the reports from Sonoma and Los Angeles Counties. Scarlet fever continues to be widely prevalent. Increases were shown in the reports from Oak-land, Los Angeles, and San Francisco. The disease is also present

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in Sonoma, Los Angeles, and Kern Counties. No cases of smallpox or poliomyelitis were reported during the week. Whooping cough showed a slight decrease. Of typhoid fever 11 cases were reported as follows: Four in Oakland, 1 in Colusa County, 1 in El Centro, 2 in Los Angeles, 2 in San Francisco, and 1 in Pasadena.

*Preventable diseases reported in California during the week ended May 12, 1917.*

Disease.	Cases reported.	Disease.	Cases reported.
Chicken pox.....	157	Mumps.....	281
Diphtheria.....	52	Pellagra.....	1
Erysipelas.....	6	Pneumonia.....	38
German measles.....	30	Scarlet fever.....	84
Gonorrhea.....	30	Syphilis.....	20
Leprosy.....	1	Tuberculosis.....	91
Malaria.....	4	Typhoid fever.....	11
Measles.....	875	Whooping cough.....	104

**YOUR PATRIOTIC DUTY—BUY A 1917 LIBERTY BOND.**

## FOREIGN.

### CHINA.

#### Plague—Amoy.

Information dated April 4, 1917, shows human and rodent plague present at Amoy.

#### Access of Rats to Vessels—Precautions Against—Amoy.

The following requirement has been ordered into effect at Amoy from April 25, 1917, for all vessels sailing for or calling at American ports or ports of the Philippine Islands:

All cargo boats and lighter lines and lines leading to the vessel from any other vessel or craft lying alongside must be equipped with inverted cones or other approved rat guards.

Previous requirements provide for the maintenance of clean and rat-free cargo boats and the rat proofing of cargo, these requirements being applicable whether or not the vessel takes on cargo or passengers for American ports or ports of the Philippine Islands.

### CUBA.

#### Communicable Diseases—Habana.

Communicable diseases have been notified at Habana as follows:

Disease.	May 1-10, 1917.		Remain- ing under treat- ment May 10, 1917.	Disease.	May 1-10, 1917.		Remain- ing under treat- ment, May 10, 1917.
	New cases.	Deaths.			New cases.	Deaths.	
Diphtheria.....	7	1	4	Paratyphoid fever..	1	.....	3
Leprosy.....	.....	.....	10	Scarlet fever.....	4	.....	4
Malaria.....	16	.....	36	Typhoid fever.....	7	.....	32
Measles.....	20	1	43	Varicella.....	3	.....	4

### INDO-CHINA.

#### Cholera—Plague—Smallpox—January, 1917.

During the month of January, 1917, 52 cases of cholera, 82 of plague, and 174 of smallpox were notified in Indo-China. The cases were distributed by Provinces as follows:

*Cholera.*—Province of Anam, 1 case; Cambodia, 10 cases occurring at three localities; Cochinchina, 21 cases at four localities; Laos, 20 at one locality—Vientiane.

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**YOUR PATRIOTIC DUTY—BUY A 1917 LIBERTY BOND.**

**Plague.**—Province of Anam, 29 cases at three localities; Cambodia 37 at two; Cochin-China, 14 at four; and Kwang-Tcheou-Wan, 2 at one locality.

**Smallpox.**—Province of Anam, 22 cases at four localities; Cambodia, 14 at 1 locality; Cochin-China, 110 at 11 localities; and Tonkin, 28 at 6 localities.

As regards cholera, only one case was reported in Anam, as against 909 cases reported in the corresponding month of the year 1916. In Laos 20 cases occurred in the locality affected.

As regards plague, an increase of 24 cases was noted in Anam over the number reported for December, 1916. In Cambodia the number of cases was three times that reported for December, 1916. An increase in the number of cases of smallpox was also noted in Cambodia. Vaccination tours have been discontinued in this Province during the past two years.

#### CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER.

##### Reports Received During the Week Ended June 1, 1917.<sup>1</sup>

##### CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
India:				
Calcutta.....	Mar. 18-24.....		21	
Indo-China:				
Provinces.....				Jan. 1-31, 1917: Cases, 52; deaths, 29.
Anam.....	Jan. 1-31.....	1		
Cambodia.....	do.....	10	9	
Cochin-China.....	do.....	21	8	
Laos.....	do.....	20	12	
Java:				
West Java.....				Mar. 23-Apr. 5, 1917: Cases, 3.
Batavia.....	Mar. 30-Apr. 5.....	1		
Philippine Islands:				
Provinces.....				Apr. 8-14, 1917: Cases, 51; deaths, 23.
Albay.....	Apr. 8-14.....	3		
Bohol.....	do.....	3	1	
Cebu.....	do.....	3	1	
Leyte.....	do.....	22	12	
Sorsogon.....	do.....	20	9	

##### PLAGUE.

India.....				Mar. 18-24, 1917: Cases, 18,394; deaths, 14,795.
Bombay.....	Apr. 1-7.....	93	80	
Karachi.....	do.....	75	64	
Madras Presidency.....	do.....	179	138	
Indo-China:				
Provinces.....				Jan. 1-31, 1917: Cases, 82; deaths, 66.
Anam.....	Jan. 1-31.....	29	18	
Cambodia.....	do.....	37	33	
Cochin China.....	do.....	14	13	
Kwang-Tcheou-Wan.....	do.....	2	2	
Saigon.....	Mar. 19-Apr. 8.....	18	9	
Java:				
East Java.....				Mar. 5-25, 1917: Cases, 14; deaths, 16.
Doekakarta Residency.....	Mar. 5-25.....	1	1	
Kediri Residency.....	do.....	2	2	
Madura Residency.....	do.....		1	

<sup>1</sup> From medical officers of the Public Health Service, American consuls, and other sources.

**YOUR PATRIOTIC DUTY—BUY A 1917 LIBERTY BOND.**

# **CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.**

**Reports Received During the Week Ended June 1, 1917—Continued.**

## **PLAGUE—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
Java—Continued.				
East Java—Continued.				
Paseroean Residency.	Mar. 5-25.	1	1	
Samarang Residency.	do.	1	2	
Surabaya Residency.	do.	7	7	
Surakarta Residency.	do.	2	2	
Siam:				
Bangkok.	Mar. 11-24.	6	5	
Straits Settlements:				
Singapore.	Mar. 18-31.	5	5	

## **SMALLPOX.**

Australia:				
New South Wales—				
Walgett.	Apr. 2.	1		
Queensland—				
Thursday Island (quarantine).	Apr. 8.	1		On s. s. Eastern from Kobe via Hongkong. Vessel proceeded in quarantine to Townsville, Brisbane, and Sydney.
Brazil:				
Rio de Janeiro.	Apr. 1-21.	31	2	
China:				
Chungking.	Apr. 1-14.			Present.
France:				
Marseille.	Mar. 1-31.		2	
Greece:				
Tripolis.	May 12.			Outbreak.
India:				
Bombay.	Apr. 1-7.	31	19	
Calcutta.	Mar. 18-24.		1	
Karachi.	Apr. 1-7.	1		
Madras.	do.	33	12	
Indo-China:				
Provinces.				Jan. 1-31, 1917: Cases, 174; deaths, 37.
Anam.	Jan. 1-31.	22	2	
Cambodia.	do.	14	6	
Cochin China.	do.	110	29	
Tonkin.	do.	28		
Saigon.	Mar. 19-Apr. 8.	135	36	
Jamaica:				
Kingston.	May 6-12.	1		
Japan:				
Kobe.	Apr. 16-29.	15	4	
Osaka.	Apr. 21-30.	48	18	
Yokkaichi.	Apr. 1-14.	3	1	
Java:				
East Java.	Mar. 19-25.	1		
Mid-Java.	Mar. 11-24.	25	3	
West Java.				Mar. 23-Apr. 5, 1917: Cases, 29; deaths, 5.
Batavia.	Mar. 23-Apr. 5.	7	3	
Russia:				
Archangel.	Mar. 1-14.	16	1	
Spain:				
Seville.	Mar. 1-31.		8	
Valencia.	Apr. 15-21.	5		
Straits Settlements:				
Singapore.	Mar. 18-24.	1		
Uruguay:				
Montevideo.	Feb. 1-28.	1	1	

**YOUR PATRIOTIC DUTY—BUY A 1917 LIBERTY BOND.**



# **CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.**

**Reports Received During the Week Ended June 1, 1917—Continued.**

## **TYPHUS FEVER.**

Place.	Date.	Cases.	Deaths.	Remarks.
Great Britain:				
Belfast.....	Apr. 22-23.....	1		
Java:				
East Java.....	Mar. 12-25.....	4	1	
Mid-Java.....	Mar. 11-24.....	12	3	
West Java.....	Mar. 23-Apr. 5.....	19		
Batavia.....	do.....	18		
Russia:				
Archangel.....	Mar. 1-14.....	10	3	

**Reports Received from Dec. 30, 1916, to May 25, 1917.**

## **CHOLERA.**

Place.	Date.	Cases.	Deaths.	Remarks.
China:				
Hunan Province—				
Changteh.....				Epidemic in August, 1916.
Macao.....				Outbreak with 72 cases reported Mar. 1, 1917.
Chosen (Korea).....	Aug. - Dec. 29.....	1,998		
Germany:				
Marienwerder.....	Jan. 21-27.....	3		Prisoners of war.
India:				
Basseln.....	Dec. 31-Mar. 17.....		48	
Bombay.....	Nov. 5-Dec. 23.....	13	12	
Do.....	Jan. 14-Feb. 10.....	7	6	
Calcutta.....	Oct. 15-Dec. 30.....		161	Oct. 8-14, 1916: Cases, 3.
Do.....	Dec. 31-Mar. 17.....		142	
Henzada.....	Feb. 18-24.....		1	
Madras.....	Nov. 5-Dec. 16.....	5		
Do.....	Dec. 31-Feb. 10.....	6	4	Dec. 17-23, 1916: One case.
Moulmein.....	do.....		7	
Rangoon.....	Nov. 26-Dec. 30.....	5	6	
Do.....	Dec. 31-Mar. 17.....	11	9	
Indo-China.....				Apr. 1-June 30, 1916: Cases, 4,540; deaths, 2,869.
Do.....				July 1-Dec. 31, 1916: Cases, 2,984; deaths, 2,398.
Provinces—				
Anam.....	Apr. 1-June 30.....	1,381	2,309	
Do.....	July 1-Dec. 31.....	700	544	
Cambodia.....	May 1-June 30.....	47	13	
Do.....	July 1-Dec. 31.....	164	116	
Cochin-China.....	Apr. 1-June 30.....	269	111	
Do.....	July 1-Dec. 31.....	123	111	
Kwang-Tcheou-Wan.....	July 1-Nov. 30.....	271	264	
Laos.....	Apr. 1-June 30.....	102	57	
Do.....	July 1-Nov. 30.....	652	630	
Tonkin.....	Apr. 1-June 30.....	2,780	1,385	
Do.....	July 1-Dec. 31.....	999	725	
Saigon.....	Dec. 25-31.....	4	3	
Do.....	Jan. 29-Mar. 18.....	7	5	
Japan:				
Fukuoka.....	Jan. 19.....	33		
Nagasaki.....	Nov. 27-Dec. 3.....	9	4	
Do.....	Feb. 19-25.....	1	1	
Osaka.....	Nov. 16-Dec. 25.....	23	57	Aug. 13-Dec. 25, 1916: Cases, 971; deaths, 751.
Do.....	Dec. 26-Jan. 25.....	19	10	Jan. 6-16, 1917: Cases, 9. Aug. 14, 1916-Jan. 25, 1917: Cases, 990; deaths, 641.
Taiwan Island—				
Keelung.....	Nov. 13-Dec. 23.....	5	7	
Do.....	Feb. 18-24.....		1	
Taihoku.....	do.....	14	5	
Tokyo.....	Jan. 23-Feb. 4.....	4		
Yokohama.....	Nov. 6-Dec. 3.....	5	3	
Districts.....	do.....	1	1	

**YOUR PATRIOTIC DUTY—BUY A 1917 LIBERTY BOND.**

# **CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.**

**Reports Received from Dec. 30, 1916, to May 25, 1917—Continued.**

## **CHOLERA—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Java:</b>				
East Java.....	Oct. 14-17.....	5	3	
West Java.....	Nov. 17-Dec. 7.....	23	9	Nov. 17-Dec. 14, 1916: Cases, 135; deaths, 65. Jan. 26-Mar. 8, 1917: Cases, 5; deaths, 1.
Batavia.....	Jan. 26-Mar. 8.....	4	1	
<b>Persta:</b>				
Enzeli.....	Mar. 21-Sept. 9.....	74	37	
Kazvin.....	July 18-Sept. 19.....	107	65	
Mazanderan Province—				
Amol.....	Nov. 16.....			Epidemic.
Ferikenar.....	Nov. 30.....	8		
Recht.....	Mar. 21-Oct. 14.....	165	60	
Teheran.....	Aug. 3-Oct. 19.....	428	409	At two localities in vicinity; Cases, 64; deaths, 38.
<b>Philippine Islands:</b>				
Manila.....	Oct. 29-Dec. 30.....	201	70	Not previously reported: Cases, 55; deaths, 2.
Do.....	Dec. 31-Feb. 24.....	14	7	
<b>Provinces:</b>				
Albay.....	Oct. 29-Dec. 9.....	246	147	Oct. 29-Dec. 9, 1916: Cases, 4,191; deaths, 2,030. Dec. 17-30, 1916: Cases, 282; deaths, 188. Dec. 31, 1916-Apr. 7, 1917: Cases, 2,347; deaths, 1,647.
Do.....	Dec. 17-30.....	20	10	
Do.....	Dec. 31-Apr. 7.....	123	88	
Antique.....	Nov. 18-25.....	8	7	
Do.....	Dec. 31-Mar. 24.....	138	98	
Bataan.....	Oct. 29-Dec. 9.....	93	77	
Do.....	Dec. 17-23.....	2	2	
Do.....	Dec. 31-Jan. 6.....	2	3	
Batangas.....	Oct. 29-Nov. 18.....	1	1	
Bohol.....	Oct. 29-Dec. 9.....	46	18	
Do.....	Dec. 17-23.....	1		
Do.....	Feb. 25-Apr. 7.....	62	34	
Bulacan.....	Oct. 29-Dec. 9.....	96	67	
Do.....	Dec. 17-23.....	10	6	
Camarines.....	Oct. 29-Dec. 9.....	61	37	
Capiz.....	do.....	45	34	
Do.....	Dec. 17-30.....	27	23	
Do.....	Dec. 31-Mar. 31.....	249	183	
Cavite.....	Oct. 29-Dec. 9.....	156	113	
Do.....	Dec. 17-30.....	24	13	
Do.....	Dec. 31-Feb. 10.....	45	33	
Cebu.....	Dec. 24-30.....	12	6	
Do.....	Jan. 7-Apr. 7.....	149	81	
Iloilo.....	Oct. 29-Dec. 9.....	237	148	
Do.....	Dec. 17-30.....	37	31	
Do.....	Dec. 31-Apr. 7.....	118	84	
Laguna.....	Nov. 2-25.....	12	10	
Leyte.....	Oct. 29-Dec. 9.....	127	98	
Do.....	Dec. 17-30.....	90	62	
Do.....	Dec. 31-Apr. 7.....	625	497	
Masbate.....	Dec. 17-23.....	8	2	
Mindanao.....	Jan. 14-Feb. 3.....	25	18	
Mindoro.....	Dec. 31-Feb. 3.....	8	7	
Misamis.....	Oct. 29-Dec. 9.....	126	79	
Do.....	Dec. 17-30.....	17	12	
Do.....	Dec. 31-Feb. 24.....	49	36	
Negros Occidental.....	Oct. 29-Dec. 9.....	910	553	
Do.....	Dec. 24-30.....	11	5	
Do.....	Jan. 7-Mar. 31.....	69	56	
Pampanga.....	Dec. 3-9.....	4	3	
Do.....	Dec. 17-23.....	6	5	
Do.....	Dec. 31-Jan. 6.....	1	1	
Rizal.....	Oct. 29-Dec. 9.....	27	14	
Do.....	Dec. 17-30.....	4		
Do.....	Dec. 31-Jan. 27.....	2		
Romblon.....	Jan. 28-Mar. 17.....	38	26	
Samar.....	Nov. 5-18.....	13	10	
Do.....	Dec. 31-Apr. 7.....	359	266	
Sorsogon.....	Oct. 29-Dec. 2.....	131	71	
Do.....	Dec. 17-23.....	1	2	
Do.....	Jan. 21-Mar. 31.....	198	111	
Tayabas.....	Nov. 5-18.....	1	1	
Do.....	Mar. 18-Apr. 7.....	46	31	
Zambales.....	Oct. 29-Dec. 2.....	7	1	

**YOUR PATRIOTIC DUTY—BUY A 1917 LIBERTY BOND.**

**CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.****Reports Received from Dec. 30, 1916, to May 25, 1917—Continued.****CHOLERA—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
Straits Settlements:				
Penang.....	Mar. 11-17.....	1	1	
Singapore.....	Oct. 22-28.....	2	2	
Do.....	Jan. 7-Mar. 10.....	5	5	
Turkey in Asia.....				
Aleppo.....	Dec. 9-15.....		1	July-Dec. 31, 1916: Cases, 9,565; deaths, 4,909. Mar. 4-24, 1917: Cases, 32; deaths, 22.
Do.....	Jan. 15-Mar. 5.....	2	2	
Bagdad.....	Nov. 6-30.....	19	8	
Beirut.....	Dec. 7-12.....	2	1	
Panderna.....	Jan. 8-Mar. 13.....	3	1	
Rodosto.....	Jan. 18.....	1	1	
Tarsus.....	Nov. 7.....	1	1	
Turkey in Europe:				
Constantinople.....	Oct. 1-Nov. 17.....	8	1	
Do.....	Mar. 4-22.....	8	6	

**PLAGUE.**

Arabia:				
Aden.....	Apr. 8-14.....	14	7	
<b>Brazil:</b>				
Bahia.....	Nov. 5-Dec. 16.....	15	9	Jan. 1-Nov. 11, 1916: Cases, 14; deaths, 7. Nov. 5-11: Cases, 4; deaths, 2.
Do.....	Jan. 7-Mar. 31.....	6	6	
Joazeiro.....				June 1-Nov. 6, 1916: Cases, 67; deaths, 51.
Pernambuco, State.....	Jan. 16-Apr. 26.....			Present in interior cities.
<b>Ceylon:</b>				
Colombo.....	Oct. 28-Dec. 30.....	50	30	July 23-29, 1916: Cases, 9; deaths, 8.
Do.....	Dec. 31-Feb. 10.....	48	46	
<b>Chile:</b>				
Antofagasta.....	Mar. 1-31.....	10		
Tacna.....	do.....	1		
Tocopilla.....	Sept. 12.....	1	1	
<b>China:</b>				
Amoy, vicinity.....	Nov. 19-Dec. 2.....			Present.
Do.....	Feb. 18-Mar. 24.....			Present and in vicinity.
Chaochowfu.....	Feb. 24.....			Present, 26 miles from Swatow.
Hongkong.....	Dec. 24-30.....	1	1	
Do.....	Jan. 21-Feb. 3.....	24	12	Present in vicinity.
Kansu Province— Taichow.....	Oct. 1-24.....		20	Pneumonic. Reported present in other localities in Province.
Nanking.....	Mar. 4-24.....			Present.
<b>Ecuador:</b>				
Duran.....	Oct. 1-Dec. 31.....	2		Sept. 1-Dec. 31, 1916: Cases, 353; deaths, 119.
Guayaquil.....	Sept. 1-Dec. 31.....	347	116	
Do.....	Jan. 1-31.....	104	43	Jan. 1-31, 1917: Cases, 106; deaths, 43.
Milagro.....	Nov. 1-Dec. 31.....	2	1	
Naranjal.....	Jan. 1-31.....	1		
Nobol.....	Oct. 1-31.....	1	1	
Santa Rosa.....	Sept. 1-30.....	1	1	
Taura.....	Jan. 1-31.....	1		
<b>Egypt:</b>				
Alexandria.....	Nov. 12-Dec. 25.....	4	3	Jan. 1-Dec. 30, 1916: Cases, 1,702; deaths, 828. Jan. 1-Apr. 19, 1917: Cases, 149; deaths, 74.
Do.....	Feb. 21-Mar. 28.....	3	1	
Port Said.....	Dec. 11.....	1		One case on s. s. Proton, arrived Nov. 16, 1916, from Sidi Barani and Sollum.
Do.....	Jan. 18-Apr. 18.....	13	8	
<b>Provinces—</b>				
Assiout.....	Mar. 8-Apr. 19.....	22	16	
Beni-Souef.....	Feb. 1.....	1		
Fayoum.....	Jan. 24-Apr. 19.....	28	12	
Girgeh.....	Mar. 27-Apr. 19.....	38	9	
Keneh.....	Mar. 20-Apr. 19.....	35	23	
Minieh.....	Jan. 25-Apr. 19.....	6	3	
<b>Gold Coast:</b>				
Akkra.....	Apr. 4.....			Present.
<b>Greece:</b>				
Athens.....	Apr. 23.....	2		In military hospital.

**YOUR PATRIOTIC DUTY—BUY A 1917 LIBERTY BOND.**

# **CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.**

**Reports Received from Dec. 30, 1916, to May 25, 1917—Continued.**

## **PLAGUE—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
Hawaii:				
Pauilo.....	Mar. 7.....	1	1	
India:				
Bassein.....	Oct. 22-Dec. 30.....	7	7	Oct. 15-Dec. 23, 1916: Cases, 89, 512; deaths, 67,068. Dec. 31, 1916-Mar. 17, 1917: Cases, 20, 116; deaths, 16,402.
Do.....	Dec. 31-Mar. 17.....	119	119	
Bombay.....	Nov. 5-Dec. 30.....	73	59	Oct. 8-14, 1916: Cases, 13; deaths, 7. Received out of date. Original report lost on s. s. Arabia.
Do.....	Dec. 31-Mar. 31.....	580	422	
Calcutta.....	Mar. 4-17.....	3	3	
Henzada.....	Feb. 18-Mar. 10.....	14	14	
Karachi.....	Oct. 29-Dec. 30.....	4	3	
Do.....	Dec. 31-Mar. 31.....	209	155	
Madras.....	Nov. 19-Dec. 30.....	7	5	Oct. 8-14, 1916: Case, 1; death, 1.
Do.....	Dec. 2-Mar. 17.....	81	51	
Madras Presidency.....	Nov. 5-Dec. 30.....	5,854	3,932	Oct. 8-14, 1916: Cases, 534; deaths, 353. Sept. 17-23, 1916: Cases, 429; deaths, 280.
Do.....	Dec. 31-Mar. 31.....	6,760	4,583	
Mandalay.....	Oct. 28-Dec. 30.....	3	3	
Do.....	Feb. 4-Mar. 10.....	17	17	
Mergui.....	Mar. 11-17.....	7	7	
Moulmein.....	Dec. 3-9.....	1	1	
Do.....	Feb. 4-Mar. 17.....	24	24	
Myingyan.....	Mar. 4-17.....	7	7	
Prome.....	Oct. 22-Dec. 30.....	177	177	
Do.....	Dec. 31-Mar. 17.....	108	108	
Rangoon.....	Oct. 28-Dec. 30.....	43	39	Oct. 1-7, 1916: Cases, 9; deaths, 9.
Do.....	Dec. 31-Mar. 17.....	339	318	
Toungoo.....	Oct. 22-Dec. 30.....	12	12	
Do.....	Dec. 31-Mar. 17.....	45	45	
Indo-China:				
Provinces—				Apr. 1-June 30, 1916: Cases, 325; deaths, 148. July 1-Dec. 31, 1916: Cases, 230; deaths, 142.
Anam.....	Apr. 1-June 30.....	142	83	
Do.....	July 1-Dec. 31.....	75	49	
Cambodia.....	Apr. 1-June 30.....	43	41	
Do.....	July 1-Dec. 31.....	57	54	
Cochin-China.....	Apr. 1-June 30.....	135	63	
Do.....	July 1-Nov. 30.....	58	22	
Kwang-Tcheou-Wan.....	do.....	29	8	
Tonkin.....	Oct. 1-31.....	2	2	
Saigon.....	Nov. 6-Dec. 17.....	9	3	
Do.....	Jan. 1-Mar. 18.....	31	21	
Japan:				
Nagoya.....	Dec. 10-16.....	2	2	
Taiwan Island—				
Shirin.....	Feb. 18-24.....	1	1	Three miles from Taihoku.
Tansui.....	Feb. 15-Apr. 4.....	5	5	
Yokkaichi.....	Nov. 12-Dec. 16.....	32	12	
Java:				
East Java.....				Aug. 26-Feb. 31, 1916: Cases, 133; deaths, 116. Jan. 1-Feb. 25, 1917: Cases, 51; deaths, 49.
Djocjakarta Residency.....	Nov. 4-Dec. 31.....	2	2	
Do.....	Jan. 1-Feb. 25.....	7	7	
Kediri Residency.....	Aug. 26-Dec. 31.....	20	18	
Do.....	Jan. 1-Feb. 25.....	3	3	
Madjoen Residency.....	Aug. 26-Dec. 31.....	8	8	
Do.....	Jan. 1-Feb. 25.....	20	20	
Paseroean Residency.....	Aug. 26-Dec. 31.....	3	3	
Samarang Residency.....	Dec. 2-31.....	6	6	
Do.....	Jan. 1-Feb. 25.....	9	9	
Surabaya Residency.....	Aug. 26-Dec. 31.....	49	49	
Do.....	Jan. 15-Feb. 11.....	13	12	
Surakarta Residency.....	Aug. 26-Dec. 31.....	28	28	
Do.....	Jan. 29-Feb. 11.....	2	1	
Mid-Java—				
Samarang.....	Aug. 26-Dec. 31.....	1	1	
Do.....	Jan. 1-Feb. 25.....	4	4	
Mauritius.....	Dec. 9-Feb. 3.....	20	11	District of Port Louis. Jan. 1-Feb. 15, 1917: 101 cases. Jan. 1-June 30, 1916: Cases, 360; deaths, 191. July 1-Dec. 31, 1916: Cases 150; deaths, 77.
Peru:				
Department—				
Ancachs.....	Jan. 1-June 30.....	57	21	
Do.....	July 1-Dec. 31.....	5	1	
Casma.....	Jan. 1-Feb. 15.....	3	3	

**YOUR PATRIOTIC DUTY—BUY A 1917 LIBERTY BOND.**

**CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.**

Reports Received from Dec. 30, 1916, to May 25, 1917—Continued.

**PLAGUE—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Peru—Continued.</b>				
<b>Department—Continued.</b>				
Arequipa.....	Jan. 1-June 30....	23	18	
Do.....	July 1-Dec. 31....	1	1	
Cajamarca.....	do.....	2		
Lambayeque.....	Jan. 1-June 30....	84	32	
Do.....	July 1-Dec. 31....	6	2	
Chiclayo.....	Jan. 1-15.....	2		
Libertad.....	Jan. 1-June 30....	54	36	
Do.....	July 1-Dec. 31....	75	40	
Do.....	Jan. 1-Feb. 15....	60		
Lima.....	Jan. 1-June 30....	45	19	
Do.....	July 1-Dec. 31....	40	18	
Callao Province.....	Jan. 1-June 30....	36	20	Occurring in Guadalupe, Pacas-
Do.....	July 1-Dec. 31....	4	2	mayo, Salaverry, San Pedro,
Do.....	Jan. 1-Feb. 15....	3		Trujillo (city and country),
Lima.....	do.....	22		and Viru.
Piura.....	Jan. 1-June 30....	561	45	In Callao City.
Do.....	July 1-Dec. 31....	17	13	City and country.
Catacaos.....	Jan. 1-Feb. 15....	11		
<b>Siam:</b>				
Bangkok.....	Oct. 22-Dec. 30....	12	10	
Do.....	Jan. 14-Mar. 10....	12	10	
<b>Straits Settlements:</b>				
Penang.....	Jan. 28-Feb. 24....	3	2	
Singapore.....	Oct. 22-Dec. 30....	7	7	
Do.....	Dec. 31-Mar. 17....	10	9	
<b>Union of South Africa:</b>				
Cape of Good Hope State—				
Uitenhage district.....	Oct. 31-Nov. 12....	2	2	Total, Oct. 23-Nov. 12, 1916:
Orange Free State.....				Cases, 24; deaths, 13.
Wimburg district.....	Feb. 5-Mar. 18....	16	8	On 5 farms.
Transvaal—				
Potchefstroom district..	Dec. 21-Jan. 21....	12	12	On 2 adjoining farms.

**SMALLPOX.**

<b>Australia:</b>				
New South Wales—				
Coonamble.....	Dec. 8.....	1		
Queensland—				
Thursday Island, quar-	Feb. 8.....	1		On steamship St. Albans from
antine station.....				Kobe via Hongkong. Vessel
				proceeded in quarantine to
				Townsville, Brisbane, and
				Sydney, arriving Feb. 16. Re-
				leased Feb. 23.
<b>Austria-Hungary:</b>				
Austria—				
Prague.....	Jan. 21-27.....	1		
Vienna.....	Nov. 12-Dec. 9....	8	1	
Do.....	Feb. 11-Mar. 24....	4		
Hungary—				
Budapest.....	Nov. 5-Dec. 23....	73	2	
Do.....	Dec. 31-Mar. 24....	81	11	
<b>Brazil:</b>				
Bahia.....	Nov. 12-Dec. 23....	5		
Do.....	Jan. 7-Mar. 17....	9		
Rio de Janeiro.....	Nov. 12-Dec. 30....	50	12	
Do.....	Dec. 31-Mar. 31....	139	37	
<b>Canada:</b>				
Alberta—				
Lethbridge.....	Feb. 1-28.....	2		
British Columbia—				
Vancouver.....	Feb. 18-Apr. 7....	2	2	
Victoria.....	Feb. 11-17.....	1		
Manitoba—				
Winnipeg.....	Feb. 11-Apr. 7....	6		
Ontario—				
Kingston.....	Mar. 11-17.....	1		
Sarnia.....	Jan. 28-Feb. 10....	3		
Toronto.....	Jan. 28-Mar. 31....	6		

**YOUR PATRIOTIC DUTY—BUY A 1917 LIBERTY BOND.**



# **CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.**

**Reports Received from Dec. 30, 1916, to May 25, 1917—Continued.**

## **SMALLPOX—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
Canary Islands:				
Las Palmas	Feb. 25-Mar. 3.	1		On American vessel.
Ceylon:				
Colombo	Dec. 31-Jan. 6.	1		
China:				
Amoy	Oct. 31-Dec. 9.			Present. Dec. 10-16, 1916, Cases, 3.
Do.	Feb. 11-Mar. 31			Present and in vicinity.
Antung	Jan. 8-14.	2	1	
Canton	Nov. 1-Dec. 20.		14	
Changsha	Mar. 11-17.	3		
Chungking	Oct. 28-Dec. 30.			Present.
Do.	Dec. 31-Mar. 31			Do.
Dairen	Nov. 5-Dec. 30.	63	8	
Do.	Dec. 31-Apr. 7.	53	19	In vicinity, Jan. 14-20, 1917, case.
Foochow	Oct. 29-Dec. 16.			Present.
Do.	Feb. 18-Mar. 24.			Do.
Harbin	Nov. 6-Dec. 17.	3		
Do.	Jan. 2-Mar. 11	2		
Hongkong	Oct. 28-Dec. 30.	349	243	
Do.	Dec. 31-Apr. 7.	511	428	Present in vicinity.
Kwangtung Province—				
Chaoyang district	Jan. 21-27.			Present. Vicinity of Swatow.
Manchuria Station	Jan. 8-Feb. 25.	4		On Chinese Railway.
Mukden	Dec. 9-30.			Present.
Do.	Dec. 31-Apr. 14.			Do.
Nanking	Nov. 12-25.			Do.
Shanghai	Jan. 28-Apr. 14.	3	11	Deaths among native population.
Tientsin	Dec. 17-30.	1	1	
Do.	Jan. 28-Feb. 3.	2		
Tsingtao	Dec. 1-9.	3		
Do.	Dec. 28-Apr. 15.	79	4	
Colombia:				
Espinal	Feb. 17.			Present. Suburb of Cartagena.
Cuba:				
Casa Blanca	Jan. 12.	1		Vicinity of Habana. Case landed Jan. 1, 1917, from s. s. Alfonso XII, from Santander, Spain.
Ensenajada	Jan. 10.	1		In Santa Clara Province. Case landed from s. s. Montevideo, from Barcelona, via Las Palmas, Canary Islands, and Porto Rico; arrived at Habana Jan. 6, 1917.
Guanabacoa	Jan. 9.	1		Vicinity of Habana. Case landed from s. s. Montevideo.
Habana	Jan. 10-20.	2		At Mariel quarantine station, from s. s. Montevideo.
Ecuador:				
Guayaquil	Nov. 1-30.	10	1	
Egypt:				
Alexandria	Dec. 25-31.		3	
Do.	Jan. 8-Apr. 15.	31	15	
Cairo	June 11-July 1.	50	20	
Do.	July 2-Nov. 11.	61	20	
Port Said	June 11-17.	1	1	
Do.	Aug. 20-Sept. 9.	2	1	
France:				
Marseille	Oct. 1-Dec. 31.		16	
Do.	Feb. 1-28.		2	
Paris	Dec. 17-23.	1		
Do.	Jan. 14-20.		1	
Germany:				
	Dec. 17-Jan. 13.	150		Lubeck, Hamburg, and the district of Luneburg.
Do.	Jan. 21-Feb. 17.	369		12 cities and 16 districts and States.
Do.	Feb. 18-Mar. 10.	375		8 cities and 22 districts and States.
Barnitz	Jan. 7-13.	1		
Bevensen	Do.	1		
Bomlitz	Do.	2		
Bremen	Dec. 31-Jan. 27.	3		
Celle	Jan. 7-13.	1		
Danenberg	Do.	1		
Dendorf	Do.	1		
Egestorf	Do.	1		

**YOUR PATRIOTIC DUTY—BUY A 1917 LIBERTY BOND.**

# **CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.**

**Reports Received from Dec. 30, 1916, to May 25, 1917—Continued.**

## **SMALLPOX—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Germany—Continued.</b>				
Geesthacht.....	Jan. 7-13.....	2		
Gosswerder.....	do.....	2		
Hamburg district.....	Dec. 31-Jan. 20.....	71		
Harburg.....	Jan. 7-13.....	1		
Husum.....	do.....	1		
Lübeck.....	do.....	8		
Reinfeld.....	do.....	1		
Soltau.....	do.....	1		
Undelos.....	do.....	1		
Winsen.....	do.....	1		
Great Britain:				
Liverpool.....	Feb. 4-Mar. 3.....	3	1	
Greece:				
Athens.....	Jan. 1-Mar. 5.....		6	
Hawaii:				
Honolulu.....	Jan. 9.....	1		From s. s. Tenyo Maru from oriental ports.
Do.....	Jan. 24.....	1		From s. s. Ecuador from Hong-kong.
India:				
Bombay.....	Dec. 10-30.....	5	1	Oct. 8-14, 1916: Cases, 3; deaths, 3. Received out of date.
Do.....	Dec. 31-Mar. 31.....	170	66	Original report lost on s. s. Arabia.
Calcutta.....	Nov. 5-Dec. 2.....		2	
Do.....	Feb. 18-Mar. 3.....		2	
Karachi.....	Dec. 31-Mar. 17.....	5	1	
Madras.....	Nov. 5-Dec. 30.....	35	19	
Do.....	Dec. 31-Mar. 31.....	364	77	
Moulmein.....	Oct. 28-Nov. 14.....		4	
Rangoon.....	Oct. 28-Dec. 30.....	17	1	
Do.....	Dec. 31-Mar. 17.....	63	2	
Indo-China:				
Provinces.....				Apr. 1-June 30, 1916: Cases, 331; deaths, 28. July 1-Dec. 31, 1916: Cases, 503; deaths, 194.
Anam.....	Apr. 1-June 30.....	45	8	
Do.....	July 1-Dec. 31.....	114	43	
Cambodia.....	Apr. 1-June 30.....	30	11	
Do.....	July 1-Dec. 31.....	24	10	
Cochin-China.....	Apr. 1-June 30.....	44	5	
Do.....	July 1-Dec. 31.....	336	99	
Laos.....	Aug. 1-Oct. 31.....	39	16	
Tonkin.....	Apr. 1-June 30.....	215	4	
Do.....	July 1-Dec. 31.....	69	25	
Saigon.....	Nov. 6-Dec. 31.....	28	7	
Do.....	Jan. 1-Mar. 18.....	246	57	
Italy:				
Turin.....	Feb. 19-Apr. 15.....	36	6	Roumanian refugees.
Japan:				
Ehime.....	Jan.-Feb.....			Present.
Hyogo.....	do.....			Do.
Kagawa.....	do.....			Do.
Kobe.....	Nov. 28-Dec. 10.....	4	1	
Do.....	Jan. 1-Apr. 8.....	105	21	
Kochi.....	Jan.-Feb.....			Do.
Osaka.....	Jan. 22-Apr. 20.....	485	97	
Taiwan Island—				
Tamsui.....	Mar. 29-Apr. 4.....	1		
Java:				
East Java.....				Sept. 16-Dec. 31, 1916: Cases, 92; deaths, 2. Jan. 8-Mar. 11, 1917: Cases, 32; death, 1.
Surabaya.....	Nov. 4-10.....	1		Sept. 16-Dec. 29, 1916: Cases, 227; deaths, 24. Jan. 6-Mar. 10, 1917: Cases, 133; deaths, 12.
Mid-Java.....				Sept. 29-Dec. 28, 1916: Cases, 408; deaths, 63. Jan. 19-Mar. 22, 1917: Cases, 169; deaths, 30.
Samarang.....	Nov. 4-10.....	3		
West-Java.....				
Batavia.....	Sept. 29-Dec. 28.....	54	9	
Do.....	Dec. 29-Feb. 22.....	25	2	
Mexico:				
Coatepec.....	Apr. 18.....			Epidemic; 6 miles from Jalapa.
Durango.....	Feb. 17.....			Present; also in vicinity
Jalapa.....	Apr. 18.....			Prevalent.
Mexico City.....	Dec. 10-30.....	20		
Do.....	Dec. 31-Apr. 21.....	169		
Monterey.....	Mar. 12-Apr. 29.....		6	
Nuevo Laredo.....	Dec. 10-30.....	1		
Progreso.....	Apr. 7.....	1	1	
Vera Cruz.....	Feb. 18-Apr. 7.....	8		

**YOUR PATRIOTIC DUTY—BUY A 1917 LIBERTY BOND.**

**CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.****Reports Received from Dec. 30, 1916, to May 25, 1917—Continued.****SMALLPOX—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
New Zealand:				
Auckland.....	Feb. 4-10.....	4		
Norway:				
Trondhjem.....	Jan. 1-31.....	2		
Philippine Islands:				
Manila.....	Jan. 21-Feb. 17....	15		July 30-Dec. 30, 1916: Cases, X0.
Portugal:				
Lisbon.....	Nov. 19-Dec. 2....	6		
Portuguese East Africa:				
Lourenço Marques.....	Sept. 1-30.....		1	
Russia:				
Archangel.....	Nov. 25-Dec. 29....	6	1	
Do.....	Jan. 1-Mar. 14....	76	12	
Moscow.....	Oct. 16-Dec. 31....	139	49	Nov. 13-25, 1916: Cases, 35;
Do.....	Jan. 1-Feb. 11....	173	47	deaths, 8.
Petrograd.....	Oct. 8-Dec. 30....	180	65	
Do.....	Dec. 31-Feb. 17....	206	73	
Poland:				
Warsaw.....	Oct. 1-Dec. 2.....	25		Oct. 1-Dec. 2, 1916: Cases, 38.
Do.....	Jan. 9-Feb. 12....	39	4	Mar. 4-20, 1916: Cases, 65; deaths, 7.
Riga.....	Dec. 1-31.....	1		
Do.....	Jan. 1-27.....	4		
Vladivostok.....	Jan. 22-Feb. 21....	9	3	
Siam:				
Bangkok.....	Mar. 4-10.....	1	1	
Spain:				
Bilbao.....	Jan. 1-31.....		2	
Cadiz.....	Nov. 1-Dec. 31....		3	
Madrid.....	do.....		144	Jan. 1-Dec. 31, 1916: Deaths, 405.
Do.....	Jan. 1-Mar. 31....		41	
Malaga.....	Sept. 1-Nov. 30....		15	
Seville.....	Nov. 1-30.....		22	
Do.....	Jan. 1-Feb. 28....		16	
Valencia.....	Nov. 19-Dec. 23....	5	1	
Do.....	Jan. 14-Apr. 7....	9		
Straits Settlements:				
Penang.....	Oct. 28-Dec. 30....	16	3	
Do.....	Dec. 31-Mar. 17....	33	5	
Singapore.....	Nov. 19-Dec. 30....	3	2	
Do.....	Jan. 7-Mar. 10....	3	1	
Sweden:				
Goteborg.....	Jan. 28-Feb. 3....		1	
Stockholm.....	Mar. 18-31.....	2		
Switzerland:				
Basel.....	Nov. 5-11.....	1		
Do.....	Dec. 31-Mar. 24....	30		
Tunisia:				
Tunis.....	Nov. 25-Dec. 15....	51	27	
Do.....	Dec. 30-Apr. 6....	75	48	
Turkey in Asia:				
Trebizond.....	Nov. 11-Dec. 30....	1	1	
Do.....	Dec. 31-Feb. 24....		20	
Union of South Africa:				
Johannesburg.....	Sept. 10-Dec. 30....	45		
Do.....	Dec. 31-Mar. 10....	22		
Venezuela:				
Maracaibo.....	Mar. 3-Apr. 21....		21	
On vessel:				
S. S. Nippon Maru.....	Jan. 22.....	2		Landed at Yokohama quaran-
Do.....	Jan. 24-Feb. 3....	9	3	tine. En route to Honolulu. Vessel from oriental ports.

**TYPHUS FEVER.**

Algeria:				
Algiers.....	Feb. 1-Mar. 31....	3	2	
Argentina:				
Rosario.....	Nov. 1-30.....		1	
Austria-Hungary:				
Austria.....				July 23-Oct. 21, 1916: Cases, 1,685.
Prague.....	Jan. 28-Mar. 10....	5		
Vienna.....	Nov. 5-Dec. 30....	21	2	
Do.....	Dec. 31-Mar. 24....	38	1	

**YOUR PATRIOTIC DUTY—BUY A 1917 LIBERTY BOND.**

# **CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.**

**Reports Received from Dec. 30, 1916, to May 25, 1917—Continued.**

## **TYPHUS FEVER—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Austria-Hungary—Continued.</b>				
Bosnia-Herzegovina.....	.....	.....	.....	July 23-Oct. 22, 1916: Cases, 32.
Hungary.....	.....	.....	.....	Nov. 20-Dec. 17, 1916: Cases, 36.
Budapest.....	Nov. 5-Dec. 30.....	3	1	Dec. 23, 1916-Feb. 11, 1917: Cases, 130.
Do.....	Jan. 14-Mar. 24.....	94	7	
<b>Belgium:</b>				
Ghent.....	Oct. 29-Nov. 4.....	.....	1	
Liege.....	do.....	.....	1	
Do.....	Jan. 23-Feb. 3.....	.....	1	
<b>Canada:</b>				
Ontario—	.....	.....	.....	
Ottawa.....	Apr. 9-15.....	.....	1	
<b>China:</b>				
Antung.....	Nov. 27-Dec. 10.....	6	.....	
Do.....	Jan. 15-21.....	2	.....	
Hankow.....	Nov. 12-18.....	1	.....	
Tientsin.....	Oct. 29-Nov. 4.....	1	.....	
Tsingtao.....	Dec. 28-Apr. 15.....	9	.....	
<b>Cuba:</b>				
Santiago.....	Dec. 7-13.....	1	1	
<b>Egypt:</b>				
Alexandria.....	Nov. 12-Dec. 31.....	28	12	Nov. 19-Dec. 23, 1916: 5 cases.
Do.....	Jan. 1-Apr. 15.....	1,136	264	
Cairo.....	June 11-July 1.....	275	142	
Do.....	July 2-Nov. 11.....	300	152	
Port Said.....	June 11-17.....	20	9	
Do.....	July 2-Oct. 14.....	10	8	
<b>Germany:</b>				
Berlin.....	Oct. 15-Dec. 23.....	.....	7	
Bremen.....	Oct. 22-Dec. 30.....	1	3	
Do.....	Dec. 31-Jan. 27.....	1	3	
Brunswick.....	Jan. 21-Feb. 17.....	1	.....	
Erfurt.....	do.....	1	.....	
Frankfort-on-Main.....	Nov. 12-18.....	.....	1	
Greifswald.....	Feb. 18-Mar. 10.....	1	.....	
Königsberg.....	Nov. 12-Dec. 23.....	5	5	
Do.....	Dec. 31-Feb. 17.....	6	2	
Marienwerder district.....	Dec. 3-9.....	1	.....	Prison camp.
Marienwerder.....	.....	.....	.....	
Posen.....	Feb. 18-Mar. 10.....	19	.....	
Potsdam.....	.....	.....	.....	
Merseburg.....	Jan. 21-Feb. 17.....	4	.....	
Neidenburg.....	Oct. 29-Nov. 18.....	7	.....	
Nuremberg.....	Oct. 29-Nov. 11.....	3	.....	
Potsdam.....	Jan. 7-13.....	2	.....	
Ruhleben.....	Feb. 18-Mar. 10.....	6	.....	
Stettin.....	Jan. 21-27.....	.....	1	
<b>Great Britain:</b>				
Belfast.....	Mar. 11-Apr. 21.....	35	3	
Cork.....	Jan. 7-Feb. 3.....	1	.....	
Glasgow.....	Dec. 3-30.....	4	.....	
Do.....	Jan. 7-13.....	.....	1	
<b>Greece:</b>				
Saloniki.....	Nov. 7-Dec. 25.....	.....	36	
Do.....	Dec. 26-Mar. 10.....	.....	28	
<b>Italy:</b>				
Bari Province—	.....	.....	.....	
Corato.....	Mar. 5-11.....	5	.....	
<b>Java:</b>				
East Java.....	.....	.....	.....	Sept. 16-Dec. 16, 1916: Cases, 10.
.....	.....	.....	.....	Jan. 8-Mar. 5, 1917: Cases, 14;
.....	.....	.....	.....	deaths, 2.
Mid-Java.....	.....	.....	.....	Sept. 16-Dec. 29, 1916: Cases, 87;
.....	.....	.....	.....	deaths, 7. Jan. 7-Mar. 10, 1917;
.....	.....	.....	.....	Cases, 49; deaths, 3.
Samarang.....	Nov. 4-Dec. 1.....	10	.....	
West Java.....	.....	.....	.....	Sept. 29-Dec. 28, 1916: Cases, 185;
.....	.....	.....	.....	deaths, 13. Jan. 19-Mar. 22,
.....	.....	.....	.....	1917: Cases, 68; deaths, 5.
Batavia.....	Sept. 29-Dec. 28.....	139	12	
Do.....	Jan. 19-Mar. 22.....	59	3	
<b>Mexico:</b>				
Aguascalientes.....	Dec. 22.....	.....	.....	Epidemic.
Ciudad Juarez.....	.....	.....	.....	July, 1916-Feb. 5, 1917: Cases, 100- (estimated).

**YOUR PATRIOTIC DUTY—BUY A 1917 LIBERTY BOND.**

# **CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.**

**Reports Received from Dec. 30, 1916, to May 25, 1917—Continued.**

## **TYPHUS FEVER—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Mexico—Continued.</b>				
Durango.....	Dec. 12.....			Present.
Do.....	Jan.-Feb.....			Present. Estimated deaths daily, about 25. Present throughout year 1916.
Mexico City.....	Dec. 3-30.....	835		
Do.....	Dec. 31-Apr. 21.....	1,253		
Monterey.....	Apr. 2-8.....		1	
Nuevo Laredo.....	Dec. 10-16.....	4		July 1-Dec. 16, 1916: Cases, 28.
<b>Netherlands:</b>				
Amsterdam.....	Feb. 25-Mar. 3.....	2		
Rotterdam.....	Nov. 26-Dec. 30.....	8		
Do.....	Feb. 4-10.....	1		
<b>Russia:</b>				
Archangel.....	Nov. 25-Dec. 29.....	29	9	
Do.....	Jan. 1-Mar. 14.....	62	20	
Moscow.....	Oct. 16-Dec. 31.....	127	17	
Do.....	Jan. 1-Feb. 11.....	141	19	
Petrograd.....	Oct. 8-Dec. 30.....	155	44	
Do.....	Dec. 31-Feb. 17.....	120	38	
Poland.....				Oct. 1-Dec. 2, 1916: Cases, 1,538; deaths, 119. In invaded regions.
Lodz.....	Oct. 1-Dec. 2.....	201	20	Mar. 4-May 29, 1916: Cases, 830; deaths, 80.
Warsaw.....	do.....	611	36	
Do.....	Jan. 9-Feb. 12.....	497	27	
Vladivostok.....	Jan. 22-Feb. 4.....	2		
<b>Spain:</b>				
Madrid.....	Nov. 1-Dec. 31.....		3	Jan. 1-Dec. 31, 1916: Deaths, 35.
Do.....	Jan. 1-Feb. 28.....		3	
<b>Straits Settlements:</b>				
Penang.....	Feb. 25-Mar. 3.....	1		
<b>Sweden:</b>				
Stockholm.....	Nov. 28-Dec. 4.....	1		
Do.....	Dec. 31-Jan. 6.....	3		
<b>Switzerland:</b>				
Basel.....	Feb. 18-24.....	1		
Zurich.....	Dec. 3-9.....	1		
Do.....	Jan. 1-Mar. 17.....	4		
<b>Tunisia:</b>				
Tunis.....	Dec. 16-22.....	1		
<b>Turkey in Asia.....</b>				Feb. 7, 1917: 54 cases reported in Army of the Orient.
Haifa.....	Oct. 16-22.....	1		
Trebizond.....	Dec. 17-30.....	3	3	
Do.....	Dec. 31-Feb. 24.....		7	
<b>Venezuela:</b>				
Maracaibo.....	Apr. 15-28.....		2	

## **YELLOW FEVER.**

<b>Brazil:</b>				
Espirito Santo, State.....	Jan. 27-Feb. 26.....	18	4	
<b>Ecuador:</b>				
Babahoyo.....	Nov. 1-30.....	1	1	
Chobo.....	do.....	1		
Duran.....	Oct. 1-31.....	1		
Guayaquil.....	Sept. 1-Dec. 31.....	46	24	
Do.....	Jan. 1-30.....	17	7	
Milagro.....	Sept. 1-31.....	1		
Do.....	Oct. 1-31.....	2	1	
Gold Coast.....	Jan. 1-31.....	1		In 1915: Cases, 2; deaths, 2—European and native.

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